

## Lighting solutions for the entire site

SITECO is your partner when it comes to customized refurbishment solutions.



# Future.

SITECO is your partner for refurbishment solutions for the entire site.

#### 160 years of lighting technology -Made in Germany.



1862

Siemens & Halske AG founded

SIEMENS

1971

First 3.5 kw floodlights used at the Munich **Olympic Games** 

1982

First HCL solution using a daylight system





First road luminaire in Berlin



1962

100 years of Siemens lighting and first lighting test road



1980

First louver **luminaire for VDU** workstations

1987

First secondary system as a basis for successful MirrorTec concept



1949

**Production relocated** to Traunreut



1975

First trunking system





2008

First LED road luminaire

siтесо 1997

SITECO founded

siteco OSRAM

2011

SITECO becomes part of OSRAM

2020

New portfolio with innovative product- and digital solutions



2021

IoT revolution with SITECO iQ technology platform for outdoor luminaires



2022/23

sixData and Bergmeister are part of SITECO



BERGMEISTER LEUCHTEN

2023

Halliday is part of SITECO



2006

First LED office luminaire

1998

Patent for microprismatic technology

2019

SITECO becomes an independent, mediumsized company

siteco

**Stern Stewart Industries** 

Sirius is the first LED floodlight with TLCI 96





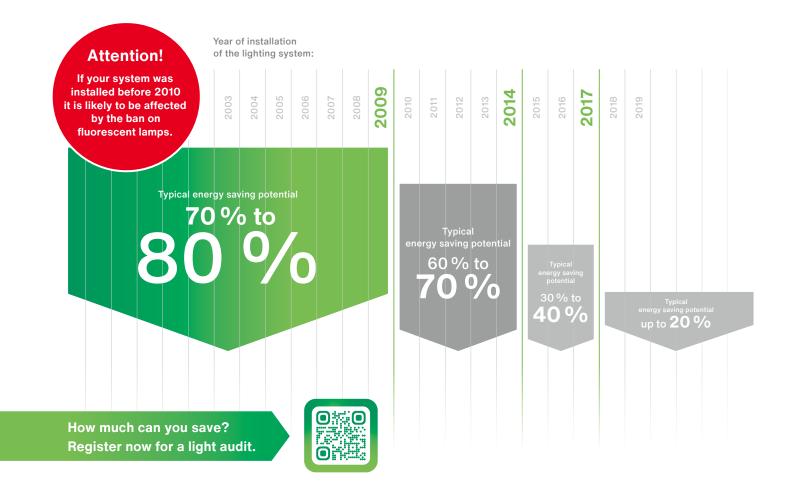
## Why refurbish lighting?

#### Refurbishing saves 80 % on costs and energy.

Whether production hall, office or outdoor area. Refurbishing the existing lighting saves up to 80 % on energy and costs.

Even with existing LED systems that are only a few years old, innovative lighting technology and intelligent control options can reduce energy and costs by 40 % to 60 %.

How much energy can you save, depending on the age of the existing lighting system?



#### Refurbishment is necessary due to the ban on lamps.

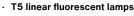
Almost all conventional lighting systems are operated with lamps that are no longer allowed to be sold in the EU. The majority of conventional lamps are no longer available.

#### February 25, 2023



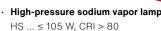
(without integrated ECG) · T5 circular fluorescent lamps

#### August 25, 2023



· T8 linear fluorescent lamps





High-pressure metal halide vapor lamp

According to EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), Annex III, the placing on the market of these lamps is prohibited in the EU after this date

#### Refurbishment is subsidized by the state.

Investments in climate-friendly lighting are supported with attractive subsidies: Public programs support efficient indoor lighting in companies with a 15 % subsidy. Municipalities receive funding of up to 40 % for efficient indoor lighting and up to 55 % for efficient outdoor lighting.

SITECO solutions ideally meet the eligibility requirements.

#### Government funding for efficient buildings (example)

Minimum technical requirements for the funding program for efficient buildings

SITECO lighting solutions

System luminous efficacy with LED continuous row luminaires at least 140 lm/W, otherwise 120 lm/W

up to > 200 lm/W

Luminous flux maintenance of LED luminaires > L80 / 50,000 h

up to L85 / 100,000 h

#### **General conditions:**

- · Optimization, refurbishment or new installation of lighting systems in existing buildings
- Investment volume of at least €2,000, maximum €5 million

#### Eligible expenses:

- Complete luminaire replacement: new lighting system including installation and dismantling of old system
- · Control and regulation technology, e.g. our intelligent SITECO Connect light management system
- · Required ancillary work and components, e.g. lighting design

Further details can be found here



## Refurbishing is teamwork.

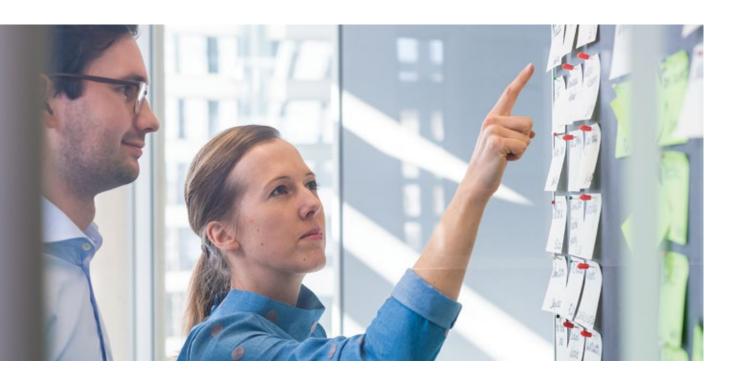
## How much work can we take off your hands?

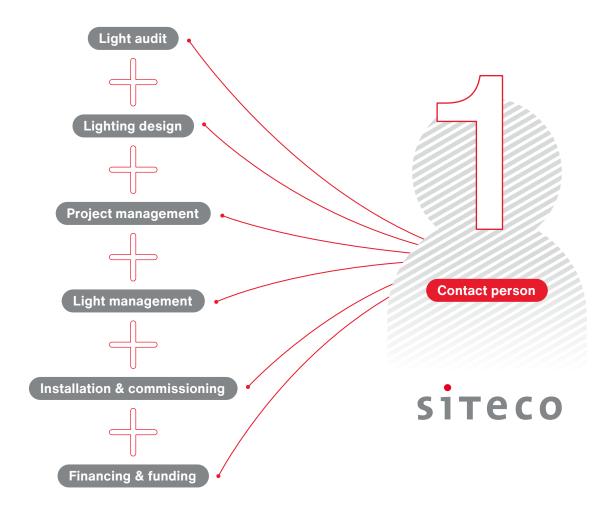
Too many projects to handle? No staff to do the installation? Or do you need someone to support you in your project? Then let's work together.

We are your partner when it comes to lighting solutions. Regardless of whether you are a wholsesaler, planner or end customer. Our specialists will support you throughout your entire project. From review, assessing the savings potential and planning the refurbishment solution to funding and financing through to installation and commissioning.

#### What does our project management do for you?

- · Support the project on site
- · Coordinate and monitor the project
- · Install and approve lighting systems
- · Assign and coordinate partner companies
- Optimize and conclude contracts
- Organize tests and measurements
- · Document the project





#### Our service is modular. You choose how we can support you.

We have trained specialists with many years of experience in the electrical industry for each service module. And if required, our professional project managers will manage your project for you.

You will have a reliable contact person who will coordinate all steps. So that everything happens at the right time. So that all partners are ideally integrated. For the entire project. At any time.

#### Light audit

## A single appointment – many insights.

#### Where is the greatest potential? Where is a specific need for action?

Our experts record the entire inventory on site. Room by room, hall by hall. From the lighting to the electrical sub-distribution, we create transparency. On this basis, we then develop possible scenarios for the new lighting, tailored to the individual needs and specific requirements of the customer.

We take a look at the existing lighting system and clarify the individual requirements for the new system on site.

- · Analysis of system condition and refurbishment requirements
- Operating costs and CO<sub>2</sub> savings
- Investment and payback



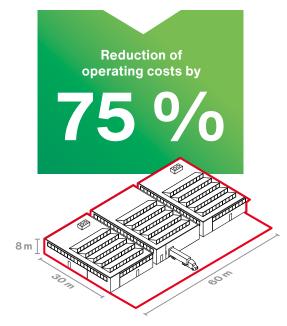
#### Full transparency.

#### How much cost can be saved? And how much CO<sub>2</sub>?

Our experts inspect the lighting system and transparently show you how the system can be made state of the art.

You'll also learn how quick the payback is: refurbishment projects often pay for themselves in less than two years. This has been our experience from numerous cases.





#### Because it pays off.

Calculation example for a new lighting system

	old installation	new installation	
Luminaire type	4 × 58 W, ECG	Licross, 9,000 lm	
Number of luminaires	153	162	_
Energy consumption peryear in kWh	138,753	37,066	-73%
Reduction in energy consumption per year in kWh		-101,687	
CO₂ emissions per year in t	59.2	15.8	-74%
Reduction in CO <sub>2</sub> emissions per year in t		-43.4	-15.00
Operating costs per year in €	42,624	10,771	-75 %
Savings per year in €		-31,853	-15 70
Costs for lighting and installation in €	Payback:	60,129	
Investment minus 15 % in efficient buildings subsidy in €	1.5 years	51,110	
Investment as monthly installment over 5 years in €	from day 1	1,202	

Calculation based on energy price of 26 cents / kWh.

#### Individual lighting solution

## Lighting concept and electrical concept: The solution in concrete terms.

Our experts show you what is already possible today. Not in theory, but directly at your location. We transform your ideas into technical solutions for you, along with the functional and design requirements. To achieve this we work hand in hand with architects, lighting designers, electrical planners and installation companies. To enable you to make the best decision, we bring the planning process to life by using state-of-the-art visualization.

We develop a lighting concept or customized solution tailored precisely to your needs – enabling you to benefit from outstanding and sustainable lighting and control technology.





When all catalog options are exhausted, our customization process begins. Developing individual customer solutions is our daily bread and butter. Our refurbishment kits can be adapted to any situation, be it suspended drywall ceilings, metal panel ceilings or system ceilings.

Refurbishment is carried out with minimal effort: In most cases, existing housings and cables can be used, eliminating the need for complex drywall and cabling work. Thus, the installation can be carried out during running operation.

#### **Everything is possible. Simply contact us.**



#### **Modification of standard luminaires**

- Customizing housing dimensions, colors and mounting accessories – for optimal integration into existing ceiling systems
- · Changing the light color and color rendering



#### Modular kit systems

- Versatile, combinable systems for your project solution
- Modular SITECO optic platforms as the basis for your custom luminaire



#### **Development of special luminaires**

- Concept development and project management
- Construction planning and special luminaire construction with an experienced development team



#### Installation and commissioning

## Are you looking for a partner for installation and commissioning?

SITECO is a partner of the wholesale. We are on hand to support electrical installation companies if, for example, there are bottlenecks during installation and commissioning.

We will help you to ensure that the lighting system is up and running on time.

As the client, you have a dedicated contact person for the complete duration of the project, who takes care of everything both on site and behind the scenes, fulfills your wishes and takes care of all warranty issues. And who also networks and coordinates all involved parties: we work with reliable partner companies from our network. Or with partners of your choice.

#### Our installation and commissioning services:

- Complete dismantling and disposal of the old lighting system
- Professional mounting and installation of luminaires and light management systems
- · Commissioning of the lighting system

- · Commissioning and coordination of partner companies
- Reliable: everything from a single source
- · Networked: all partners optimally coordinated
- Promised: our wealth of experience is your advantage



#### Financing and funding

## Your customer doesn't have a budget? We'll take care of funding and financing.

Those investing in climate-friendly lighting receive subsidies. You can get over 50 % from the government for efficient indoor and outdoor lighting.

SITECO knows. We help you select the optimal funding. We work with you to calculate subsidies and financing, and we also assist with the application.

## Financing instead of own funds.

We would like to show you how this works. Because it can be done – simply by spreading the investment for the new lighting over several years. It then often sustains itself, because more operating costs are saved from day one than are incurred in monthly installments. We will gladly do the calculations for you and your project.

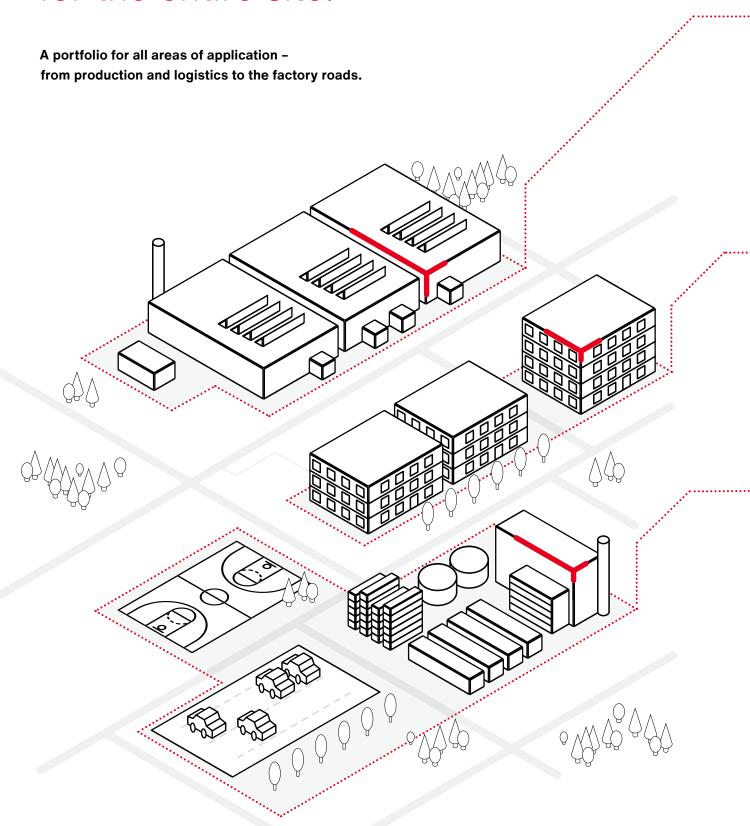
Our individual financing solutions let you save from day one.

The terms are flexible and depend entirely on your needs. We also prepare efficiency certificates that verify at least 50 % CO<sub>2</sub> savings for funding applications.

- · Funding advice
- Financing



## We have solutions for the entire site.



#### **Production & logistics**

Trunking systems	→ Page 26
Damp-proof luminaires	→ Page 44
Highbay luminaires	→ Page 56
Clean room luminaires	→ Page 76
Explosion-proof luminaires	→ Page 82

#### Office

Office lighting families	→ Page 88
Downlights	→ Page 116
Track spotlights	→ Page 128
Wall & ceiling luminaires	→ Page 130
Batten luminaires	→ Page 142

#### Outdoor areas

Projectors and floodlights	→ Page 150
Streetlights	→ Page 164
Pathway luminaires	→ Page 178
Design luminaires by Bergmeister	→ Page 192

#### **Light management systems**

Control for indoor luminaires	→ Page 200
Control for outdoor luminaires	→ Page 204

ontents Content ontents Content nts Contents Cc ontents Content ontents Content nts Contents Co ontents Content ontents Content nts Contents Cc ontents Content

#### **Production & logistics**

#### **Trunking systems**



**Licross 11 / 21** 







**DUS 31** 

→ S. 40



Refurbishment luminaire insert 31

→ S. 42



Highbay 21

Highbay 11

→ S. 60

**Highbay 11 Xtreme** 

→ S. 64

→ S. 56

**Highbay luminaires** 



Highbay 31

→ S. 68





Monsun 11

→ S. 44



Highbay 42

→ S. 72





Sport 31

→ S. 74



Monsun 21

→ S. 46



**Clean room luminaires** 

Mira 11 / 21 → S. 76



Monsun 21 Eco

→ S. 48



Monsun 31 Tube

→ S. 50



**Monsun Ex** 

**Explosion-proof luminaires** 

→ S. 82



Monsun 31

→ S. 52



**Powerbrik** 

→ S. 54

#### Office

#### Office lighting families



Silica 21 → S. 88



Silica 21 Ring

→ S. 96



Silica 11 Floor

→ S. 100



Silica 21 Floor R

→ S. 102



Silica 31 Floor

→ S. 104



Vega 11

→ S. 106



Apollon 21/31/41

→ S. 108



**Apollon 31 Surface** 

→ S. 113





Lunis 21

→ S. 116



Lunis 31

→ S. 120

#### **Downlights**



Lunis 41

→ S. 124

#### Track spotlights



Spot 31

→ S. 128

#### Wall and ceiling luminaires



Round 21

→ S. 130



Round 31

→ S. 132



Rondel 21

→ S. 134



Rondel 31

→ S. 136



Rondel 41

→ S. 140

#### **Batten luminaires**



**Ecopack 31** 

→ S. 142



Batten 41

→ S. 144

#### **Outdoor areas**

#### **Projectors and floodlights**



Floodlight FL 11
→ S. 150



Floodlight FL 21 iQ → S. 154



SiCompact 31 → S. 158

#### Streetlights



Streetlight SL 11 iQ

→ S. 164



Streetlight SL 21 iQ → S. 168



Streetlight SL 31 → S. 172

#### **Pathway luminaires**



Litepole iQ → S. 178



Mushroom luminaire iQ

→ S. 180



Module 540 iQ → S. 182

#### **Pathway luminaires**



CL 31 Wall / Ceiling

→ S. 184



CL 31 Bollard → S. 190

#### **Design luminaires by Bergmeister**



Planea bollard luminaire → S. 192



Planea mast luminaire → S. 194



Canna 200 → S. 196

#### Light management systems





SITECO Connect Indoor

→ Page 200



SITECO Connect Outdoor

→ Page 204



SITECO Connect Sports
→ Page 208

gend Legend L gend Legend L d Legend Lege gend Legend L d Legend Lege end Legend Leg gend Legend L d Legend Lege end Legend Leo

### Legend

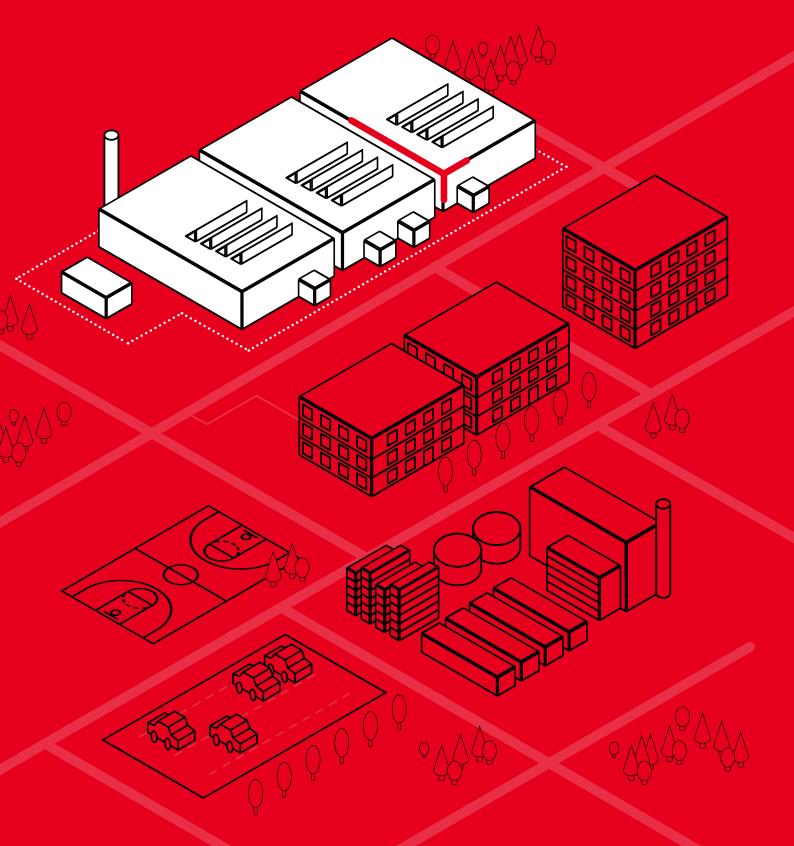


#### Content

**Emergency light** 

Technical data are subject to change without notice. No liability for printing errors. The General Terms and Conditions of Sale of Siteco GmbH apply (see siteco.com).

Trunking systems	→ Page 26
Damp-proof luminaires	→ Page 44
Highbay luminaires	→ Page 56
Clean room luminaires	→ Page 76
Explosion-proof luminaires	→ Page 82



## Production and logistics

### Licross 11 / 21

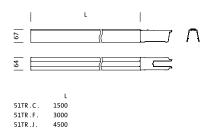
#### Maximum efficiency, maximum flexibility.

- Maximum efficiency thanks to outstanding lighting technology with over 200 lm/W for low operating costs and extremely fast amortization
- 14 cores for networking without additional wiring effort
- · Click system for easy integration of sensors, WiFi, audio, video, emergency lighting and more
- · Typical SITECO optical technology for the best visual conditions
- $\boldsymbol{\cdot}$  Maximum flexibility in application and equipped for the needs of the future









#### Licross, trunking rail

















#### Technical data

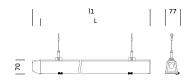
Electrical connection	7-pin, max. 2.5 mm <sup>2</sup>   14-pin, max. 2.5 mm <sup>2</sup>	Mounting	Suspended mounting   surface-mounted,
Housing	Sheet steel, galvanized, coil-coated, white		on the ceiling

Color	<b>L</b> mm	kg	Order no.
with through-wiring of 7 × 2.5 mm <sup>2</sup>			
White	1,500	2.8	51TR1C7
White	3,000	5.2	51TR1F7
White	4,500	7.6	51TR1J7
with through-wiring of 14 × 2.5 mm <sup>2</sup>			
White	1,500	2.8	51TR1CE
White	3,000	5.2	51TR1FE
White	4,500	7.6	51TR1JE

Accessories	PU	kg	Order no.	
End cap, white, for trunking rail, for protection rating IP20	2 pc.	0.1	59TL1S	
End cap, white, for trunking rail, for protection rating IP40 / IP50 / IP54 / IP64	2 pc.	0.1	59TP1S	
Blank cover, white, for protection rating IP20 / IP40	1 pc.	0.2	59TL1A	
Blank cover, white, for protection rating IP50 / IP54 / IP64, end cap, white	1 pc.	0.3	59TP1A	
Feed module, white, socket, 14-pin, max. 2.5 mm², for protection rating IP20 / IP40	1 pc.	0.8	59TL1FNE	
Feed module, white, socket, 14-pin, max. 2.5 mm², for protection rating IP50 / IP54 / IP64	1 pc.	0.8	59TP1FNE	
Multi-adapter with plug, 5-pin, white, L = 500 mm	1 pc.	0.4	56TL1M	
Ceiling fixation element, V2A spring steel	1 pc.	0.1	59TR9D	
Chain suspension, steel, galvanized	1 pc.	0.1	59TR9K	
Chain, steel, galvanized		0.1	5LY9001	
Single wire suspension, with 2 m wire, fastening on rail side	1 pc.	0.1	59TR9R	
Single wire suspension, with 2 m wire, with ceiling sleeve and fastening on rail side	1 pc.	0.1	59TR9RS	







L 11 51TL1..N... 1500 1542 51TL1..V... 2250 2292

#### Licross 11 Recessed, luminaire insert

































#### **Technical data**

Color temperature	4,000 K
Luminous flux	4,300     27,150 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 203 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PMMA
Control	ON / OFF   ON / OFF Multilumen   ON / OFF Multilumen, CLOi   DALI 2

Temperature range	see electronic catalog
Rated service life	100,000 h (L80/B50) at AT = 25 °C / 100,000 h (L100/B50) at AT = 25 °C
Electrical connection	Plug, 3-pin, with phase selection   Plug, 5-pin, with phase selection
Housing	Sheet steel, galvanized, coil-coated, white
Mounting	in the Licross trunking rail

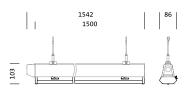
Protection symbol D: when used in an environment without relevant dust exposure with appropriate accessories  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$ 

K	CRI	lm	w	lm/W	Control	kg	Order no.
Length: 1	,500 mm, sy	mmetric wide o	listribution				
4,000	≥ 80	8,950	49	185	ON / OFF	1.3	51TL127N485G
4,000	≥ 80	10,290	55	186	ON / OFF Multilumen	1.3	51TL12MN4AXG
4,000	≥ 80	14,100	75	189	ON / OFF Multilumen	1.3	51TL12MN4EXM
4,000	≥ 80	6,020	30	200	ON / OFF Multilumen	1.3	51TL12MN46XM
4,000	≥ 80	4,300	22 24	196	ON / OFF, CLOi	1.3	51TL12CN44XG
4,000	≥ 80	6,020	30 33	200	ON / OFF Multilumen, CLOi	1.3	51TL12CN46XM
4,000	≥ 80	9,310	49 55	189	ON / OFF Multilumen, CLOi	1.3	51TL12CN49XG
4,000	≥ 80	12,740	67 75	192	ON / OFF Multilumen, CLOi	1.3	51TL12CN4C5M
4,000	≥ 80	10,240	57	181	DALI 2	1.3	51TL12DN4AXG
4,000	≥ 80	14,030	77	183	DALI 2	1.3	51TL12DN4EXM
Length: 2	2,250 mm, sy	mmetric wide	distribution				
4,000	≥ 80	6,990	34	203	ON / OFF Multilumen*	2.0	51TL12MV465M
4,000	≥ 80	17,270	89	194	ON / OFF Multilumen*	2.0	51TL12MV4HXM
4,000	≥ 80	15,360	84	183	DALI 2	2.0	51TL12DV4FXG
4,000	≥ 80	27,150	151	180	DALI 2	2.0	51TL12DV4M2M

<sup>\*</sup> expected start of delivery at the beginning of 2024







#### **Licross 11 Protected, luminaire insert**



























#### **Technical data**

Color temperature	4,000 K
Luminous flux	8,520     14,500 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 174 lm/W
Beam angle	Direct, wide distribution, symmetric, with ceiling illumination
Cover	PMMA
Control	ON / OFF Multilumen   DALI 2

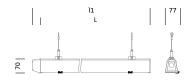
Temperature range	see electronic catalog
Rated service life	100,000 h (L80/B50) at AT = 25 °C / 100,000 h (L100/B50) at AT = 25 °C
Electrical connection	Plug, 3-pin, with phase selection   Plug, 5-pin, with phase selection
Housing	Sheet steel, galvanized, coil-coated, white
Mounting	in the Licross trunking rail

 $\label{protoconstraint} \mbox{Protection symbol D: when used in an environment without relevant dust exposure with appropriate accessories$ 

K	CRI	lm	W	lm/W	Control	kg	Order no.
Length: 1,	,500 mm, syı	mmetric wide d	listribution				
4,000	≥ 80	8,520	49 55	172	ON / OFF Multilumen, CLOi	2.4	51TD1BCN485G
4,000	≥ 80	13,520	78 87	174	ON / OFF Multilumen, CLOi	2.4	51TD1BCN4D5M
4,000	≥ 80	9,370	57	164	DALI 2	2.4	51TD1BDN49XG
4,000	≥ 80	14,500	87	166	DALI 2	2.4	51TD1BDN4E5M







L 11 51TL1..N... 1500 1542 51TL1..V... 2250 2292

#### Licross 21 Recessed, luminaire insert





























#### **Technical data**

Color temperature	4,000 K
Luminous flux	9,260     22,710 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 186 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PMMA
Control	ON / OFF Multilumen   DALI 2
Temperature range	Permissible ambient temperature: see table, for ceiling surface-mounting reduce the maximum permissible ambient temperature by 5 °C

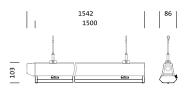
75,000 h (L80/B50) at AT = 25 °C / 75,000 h (L100/B50) at AT = 25 °C Plug, 3-pin, with phase selection   Plug, 5-pin, with phase selection			
in the Licross trunking rail			

Protection symbol D: when used in an environment without relevant dust exposure with appropriate accessories  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$ 

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Length:	1,500 mm,	symmetric w	ide distribution	1	"			
4,000	≥ 80	8,820	48	184	ON/OFF	-35 +40 °C	1.3	52TL127N485G
4,000	≥ 80	10,990	61	182	ON / OFF Multilumen	-35 +40 °C	1.3	52TL12MN4A5G
4,000	≥ 80	15,100	83	182	ON / OFF Multilumen	-35 +30 °C	1.3	52TL12MN4FXM
4,000	≥ 80	9,260	50 61	186	ON / OFF Multilumen, CLOi	-35 +40 °C	1.3	52TL12CN49XG
4,000	≥ 80	12,670	68 83	186	ON / OFF Multilumen, CLOi	-35 +30 °C	1.3	52TL12CN4C5M
4,000	≥ 80	10,280	58	177	DALI 2	-25 +35 °C	1.3	52TL12DN4AXG
4,000	≥ 80	15,000	85	177	DALI 2	-25 +30 °C	1.3	52TL12DN4FXM
Length:	2,250 mm,	symmetric w	ide distribution	n				
4,000	≥ 80	15,420	85	181	DALI 2	-25 +35 °C	2.0	52TL12DV4FXG
4,000	≥ 80	22,710	126	181	DALI 2	-40 +30 °C	2.0	52TL12DV4L2M







#### **Licross 21 Protected, luminaire insert**

























#### **Technical data**

Color temperature	4,000 K
Luminous flux	8,570     13,950 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 172 lm/W
Beam angle	Direct, wide distribution, symmetric, with ceiling illumination
Cover	PMMA
Control	ON / OFF Multilumen   DALI 2
	· · · · · · · · · · · · · · · · · · ·

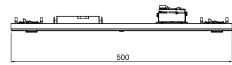
Temperature range	Permissible ambient temperature: see table, for ceiling surface-mounting reduce the maximum permissible ambient temperature by 5°C
Rated service life	75,000 h (L80/B50) at AT = 25 °C / 75,000 h (L100/B50) at AT = 25 °C
Electrical connection	Plug, 3-pin, with phase selection   Plug, 5-pin, with phase selection
Housing	Sheet steel, galvanized, coil-coated, white
Mounting	in the Licross trunking rail

 $\label{protection} \mbox{Protection symbol D: when used in an environment without relevant dust exposure with appropriate accessories$ 

K	CRI	lm	w	lm/W	Control	ta	kg	Order no.
Length: 1	1,500 mm,	symmetric w	ide distribution			'		'
4,000	≥ 80	8,570	50 61	170	ON / OFF Multilumen, CLOi	-35 +45 °C	2.4	52TD1BCN485G
4,000	≥ 80	11,830	69 83	172	ON / OFF Multilumen, CLOi	-35 +35 °C	2.4	52TD1BCN4B5M
4,000	≥ 80	10,060	62	162	DALI 2	-25 +35 °C	2.4	52TD1BDN4AXG
4,000	≥ 80	13,950	85	164	DALI 2	-25 +35 °C	2.4	52TD1BDN4D5M









#### **Licross 21 safety lighting**















#### Technical data

Color temperature	4,000 K
Luminous flux	300     320 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 82 lm/W
Beam angle	Direct, narrow beam distribution   direct, extremely wide distribution, symmetric   direct, extremely wide distribution, asymmetric   narrow beam distribution, elliptic
Cover	PMMA lens, ABS cover, white
Control	Compatible with CEAG STAR technology systems (ZB-S, DG-S, LP-Star, AT-S+)
-	

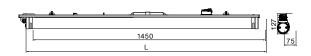
-20 +40 °C, with ceiling surface- mounting, reduction of maximum permissible ambient temperature by 5 °C				
50,000 h (L80/B50) at AT = 25 °C				
Plug, 6-pin, with phase selection   CEAG supply and monitoring module with address switch				
Sheet steel, coil-coated, white				
in the Licross trunking rail, mounting height, see table				

Emergency lighting function for 9- ... 14-pin trunking rail

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Symmet	ric, extrem	ely wide dis	tribution, for	surface, mour	nting height: 2.5 7 n	1		
4,000	≥ 70	320	3.9	82	CEAG	−20 +40 °C	0.5	56TL157C4X31
Asymme	etric, extre	nely wide d	istribution, for	r escape and ı	escue routes, mounti	ng height: 2.5 7 m		
4,000	≥ 70	300	3.9	77	CEAG	-20 +40 °C	0.5	56TL197C4X31
Symmet	ric, narrow	distribution	, for surface,	mounting heigh	ght: 7 17 m			
4,000	≥ 70	310	3.9	80	CEAG	−20 +40 °C	0.5	56TL117C4X31
Elliptic,	narrow dist	tribution, for	r escape and r	escue routes	, mounting height: 7	. 17 m		
4,000	≥ 70	320	3.9	82	CEAG	−20 +40 °C	0.5	56TL1E7C4X31







#### Monsun 31 Tube for Licross, luminaire insert





















#### Technical data

Color temperature	4,000 K			
Luminous flux	4,450     10,000 lm			
Color rendering index	CRI ≥ 80			
Luminous efficacy	172 lm/W			
Beam angle	Diffuse distribution, symmetric			
Cover	PMMA, diffuser			
Control	ON / OFF Multilumen   DALI 2 Multilumen			

Temperature range	−20 +40 °C			
Rated service life	50,000 h (L80/B50) at AT = 25 °C			
Electrical connection	With 1 terminal, 3-pin, max. 2.5 mm <sup>2</sup>			
Housing	PMMA, semi-transparent, matt white, cylindrical, end cap and fixing clips made of stainless steel (V4A)			
Mounting	on the Licross trunking rail			

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.		
Diffuse distribution										
4,000	≥ 80	4,450   6,500   8,000   10,000	25   37   46   58	172	ON / OFF Multilumen	-20 +40 °C	2.4	51FT10MN4A0ATR2		
4,000	≥ 80	4,450   6,500   8,000   10,000	25   37   46   58	172	DALI 2 Multilumen	-20 +40 °C	2.4	51FT10NN4A0ATR2		

## Licross system overview



#### Licross trunking rail

- Trunking rails with up to 14 cores for a new level of networking
- Diverse rail and insert configuration options for specifications tailored to requirements

#### **Licross Recessed**

- The simple way to customized lighting thanks to a wide range of light distributions
- · Uniform design due to rail-flush integration
- Very high luminous flux of over 27,000 lm and with an efficiency of over 200 lm/W

#### **Licross Protected**

- High resistance and suitability for ambient temperatures up to 50 °C over complete service life
- Very robust system with protection ratings up to IP64 / IK06 with simultaneously high luminous flux of over 14,000 lm

#### **Licross Performance**

- Special optical technology for very high visual comfort with up to UGR ≤ 19 and suitability for VDU workstations
- Attractive interior design with up to 23 % indirect light component – ideal for SITECO HCL<sup>live</sup>

#### Licross Monsun 31 Tube

- Resistant to harmful gases with IP69K, e.g. for use in tire warehouses
- · Wide range of applications thanks to high lumen packages

#### Licross retail solutions

- Spot: Accentuated lighting and outstanding color rendering for attractive interior designs and merchandise displays
- Ultra-fast data transmission to the device of your choice via standardized Ethernet sockets
- · Connection of loudspeakers via universal adapter

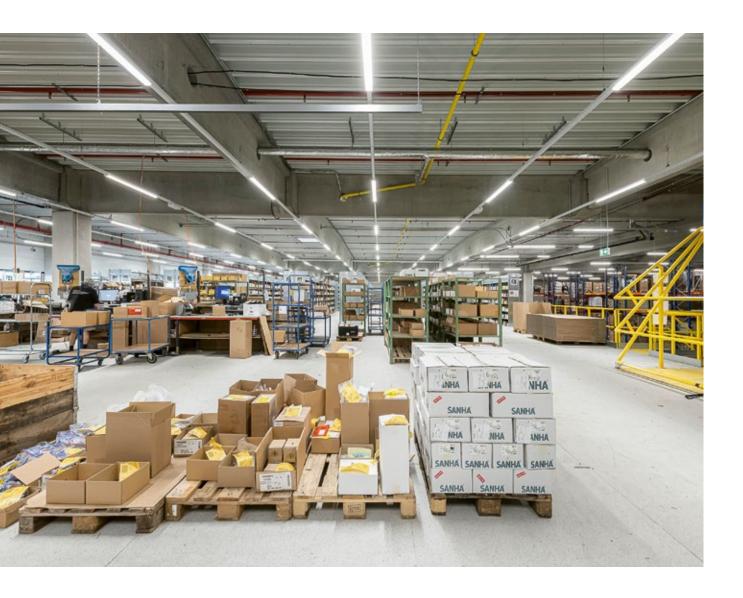




### Modario 31

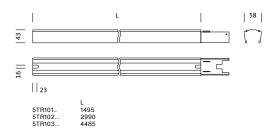
#### Our well-known & robust all-rounder.

- · Ideal for refurbishing existing Modario trunking systems
- Highly efficient LED inserts with up to 166 lm/W for uncomplicated leveraging of energy-saving potential
- · Wide range of variants due to modular system with a large number of luminaire inserts for maximum flexibility
- Multilumen capability also with ON / OFF models for lighting solutions tailored to requirements









### Modario, trunking rail











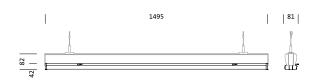
Electrical connection	Terminal, 5-pin, max. 2.5 mm²   Terminal, 10-pin, max. 2.5 mm²	Mounting	Suspended mounting   surface-mounted, on the ceiling
Housing	Sheet steel, coated, pure white		

Color	<b>L</b> mm	kg	Order no.
with through-wiring of 5 × 2.5 mm <sup>2</sup>			
pure white	1,495	2.2	5TR10150Q
pure white	2,990	4.0	5TR10250Q
pure white	4,485	5.7	5TR10350Q
with through-wiring of 10 × 2.5 mm <sup>2</sup>			
pure white	1,495	2.4	5TR101A0Q
pure white	2,990	4.4	5TR102A0Q
pure white	4.485	6.4	5TR103A0Q

End cap, white, for trunking rail, for protection rating IP20 / IP40  Blank cover, IP20, length: 1,495 mm, signal white (RAL 9003)	2 pc. 1 pc.	0.1	5TR90161
Plank agyar IP20 Janath; 1.405 mm, signal white (PAL 0002)	1 pc.	0.2	ETDOOOOOO
Blank Cover, 1F20, length. 1,493 him, signal white (NAL 9003)			5TR30200Q2
Ceiling fixation element, V2A spring steel	1 pc.	0.1	5LS91101EA
Single wire suspension, with wire, fastening on rail side	1 pc.	0.1	5TR901302
Single wire suspension, with ceiling sleeve, fastening on rail side	1 pc.	0.1	5TR901342
Chain suspension, steel, galvanized	1 pc.	0.1	5TR9012
Chain, steel, galvanized	running	m. 0.1	5LY9001







### Modario 31, luminaire insert























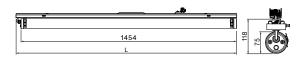


Color temperature	4,000 K	Temperature range	Permissible ambient temperature:		
Luminous flux	7,810     12,380 lm		see table, for ceiling surface-mounting reduce the maximum permissible		
Color rendering index	CRI ≥ 80		ambient temperature by 5 °C		
Luminous efficacy	up to 160 lm/W	Rated service life	50,000 h (L85/B50) at AT = 25 °C		
Beam angle	Wide distribution   narrow distribution, symmetric	Electrical connection	Plug, 3-pin, with phase selection   Through-wiring available in system		
Cover	PMMA, frosted prismatic structure		dimension		
Control	ON/OFF ON/OFF Multilumen	Housing	Sheet steel, coil-coated, white		
	DALI 2	Mounting	on the Modario trunking rail		

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Wide dis	tribution							
4,000	≥ 80	7,810	51	154	ON/OFF	-35 +35 °C	1.9	53BM81271V4080
4,000	≥ 80	8,950	60	150	ON / OFF Multilumen	-35 +30 °C	1.9	53BM812M1V4085
4,000	≥ 80	12,380	77	160	ON / OFF Multilumen	-35 +35 °C	1.9	53BM812M1V4120
4,000	≥ 80	8,930	62	144	DALI 2	-25 +30 °C	1.9	53BM812D2V4085
4,000	≥ 80	12,350	80	155	DALI 2	−25 +30 °C	1.9	53BM812D2V4120
Narrow d	listribution							
4,000	≥ 80	8,930	62	144	DALI 2	-25 +30 °C	1.9	53BM811D2V4085
4,000	≥ 80	12,350	79	156	DALI 2	-25 +30 °C	1.9	53BM811D2V4120







### Monsun 31 Tube for Modario, luminaire insert



















Color temperature	4,000 K
Luminous flux	4,450     10,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	172 lm/W
Beam angle	Diffuse distribution, symmetric
Cover	PMMA, diffuser
Control	ON / OFF Multilumen   DALI 2

Temperature range	−20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	With 1 terminal, 3-pin, max. 2.5 mm <sup>2</sup>   Through-wiring available in the system dimension
Housing	PMMA, semi-transparent, matt white, cylindrical, end cap and fixing clips made of stainless steel (V4A)
Mounting	on the Modario trunking rail

Κ	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Diffuse	distrib	bution						
4,000	≥ 80	4,450   6,500   8,000   10,000	25   37   46   58	172	ON / OFF Multilumen	-20 +40 °C	2.6	51FT10MN4A0ATR1
4,000	≥ 80	4,450   6,500   8,000   10,000	25   37   46   58	172	DALI 2 Multilumen	-20 +40 °C	2.7	51FT10NN4A0ATR1

## **DUS 31**

### Brings the classic among trunking systems up to date.

- Highly efficient LED luminaire insert with up to 165 lm/W for refurbishing existing DUS trunking systems equipped with fluorescent lamps
- Simple implementation of the latest energy efficiency standard in existing installations
- · Quick and easy installation
- · Proven, functional system with state-of-the-art technology
- $\boldsymbol{\cdot}$  Prismatic frosted optic for low glare and high visual comfort









### **DUS 31, luminaire insert**

























Color temperature	4,000 K   6,500 K	Temperature range		
Luminous flux	7,620     12,380 lm	_		
Color rendering index	CRI ≥ 80	<del>_</del>		
Luminous efficacy	up to 165 lm/W	Rated service life		
Beam angle	Wide distribution, symmetric	Electrical connection		
Cover	PMMA, frosted prismatic structure			
Control	ON / OFF   ON / OFF Multilumen   ON / OFF Multilumen CLOi   DALI 2	Housing		
	<u>-</u>	Mounting		

Temperature range	Permissible ambient temperature: see table, for ceiling surface-mounting reduce the maximum permissible ambient temperature by 5 °C
Rated service life	50,000 h (L85/B50) at AT = 25 °C
Electrical connection	Plug, 5-pin, with phase selection   Through-wiring available in system dimension
Housing	Sheet steel, coil-coated, white
Mounting	on the DUS trunking rail

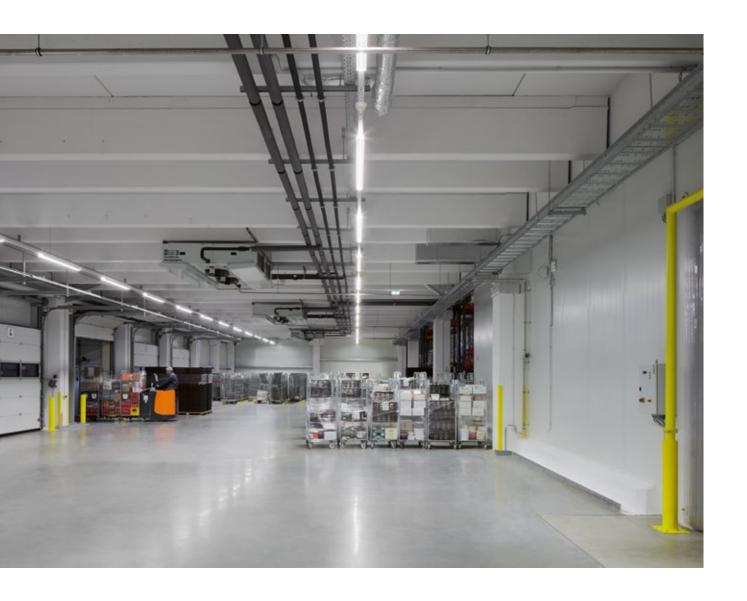
K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
MO, syn	nmetric wi	de distributi	on					
4,000	≥ 80	7,810	51	154	ON / OFF	-35 +35 °C	1.8	53BD81271V4080
4,000	≥ 80	8,950	60	150	ON / OFF Multilumen	-35 +30 °C	1.8	53BD812M1V4085
4,000	≥ 80	7,620	49	156	ON / OFF Multilumen, CLOi	-35 +30 °C	1.8	53BD812C1V4075
4,000	≥ 80	8,930	62	144	DALI 2	-25 +30 °C	2.0	53BD812D2V4085
6,500	≥ 80	7,640	49	156	ON / OFF Multilumen, CLOi	-35 +30 °C	1.8	53BD812C1V6075
HO, sym	metric wi	de distributio	on					
4,000	≥ 80	12,380	77	160	ON / OFF Multilumen	-35 +35 °C	1.9	53BD812M1V4120
4,000	≥ 80	10,520	64	165	ON / OFF Multilumen, CLOi	-35 +35 °C	1.9	53BD812C1V4105
4,000	≥ 80	12,350	80	155	DALI 2	-25 +30 °C	2.0	53BD812D2V4120

Accessories	PU	kg	Order no.
DUS IP60, blank insert, sheet steel, white, length 1,535 mm	1 pc.	0.8	5LS90800ED
DUS IP20, blank cover, plastic, length 1,535 mm	1 pc.	0.2	5LJ90830ED

## Refurbishment Iuminaire insert 31

### The universal lighting unit for trunking refurbishment.

- · Enables refurbishment of different trunking systems with highly efficient LED inserts of ≥ 160 lm/W
- · Uncomplicated replacement, with continued use of the existing trunking rails, thanks to tool-free installation
- $\boldsymbol{\cdot}$  Simple implementation of the latest energy efficiency standard in existing installations
- · Long service life, maintenance-free









### **Refurbishment luminaire insert 31**













### **Technical data**

Color temperature	4,000 K
Luminous flux	3,300     8,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	160 lm/W
Beam angle	Wide distribution, symmetric
Cover	PMMA, lens

Control	ON / OFF Multilumen
Temperature range	-20 +40 °C
Rated service life	50,000 h (L85/B50) at AT = 25 °C
Electrical connection	Connectivity: Socket
Housing	Extruded aluminum profile, traffic white (RAL 9016)
Mounting	on the trunking rail

K	CRI	lm	w	lm/W	Control	ta	kg	Order no.	
Length: 1,172 mm									
4,000	≥ 80	3,300   4,450   5,610   6,400	20   27   34   40	160	ON / OFF Multilumen	-20 +40 °C	1.2	51RE12MA46B	
Length: 1,472 mm									
4,000	≥ 80	4,130   5,610   6,850   8,000	25   34   42   50	160	ON / OFF Multilumen	−20 +40 °C	1.4	51RE12MB48B	

Additional variants on request (e.g. for DALI)

Accessories	PU	kg	Order no.	
Supplementary spring for DUS (5LJ9), mandatory accessory, for fixing the insert	2 pc.	0.1	59RL0CD	
Plug connector for DUS (5LJ9), plastic, white, 3-pin for ON / OFF	1 pc.	0.1	59RP004	
End caps for refurbishing DUS, plastic, white, length compensation total + 63 mm, length of insert + end cap: 1,235 / 1,535 mm	2 pc.	0.1	59RC1K	

### Monsun 11

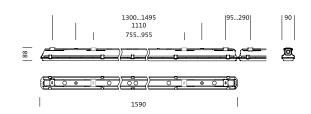
### The performance solution with maximum efficiency and service life. Even at high temperatures and outdoors.

- Reliable, robust damp-proof luminaire with a service life of up to 100,000 hours
- · Outstanding efficiency of up to 182 lm/W
- · Equipped for harsh environments and use in exposed outdoor areas thanks to IP66 protection rating
- Low operating costs and standard-compliant lighting even with ON/OFF models thanks to intelligent CLOi luminous flux control
- · Control is flexibly adaptable with upgradeable sensor technology









### Monsun 11, damp-proof luminaire with PMMA diffuser





























Color temperature	4,000 K	Electrical connection	Terminal, 3-pin, max. 2.5 mm <sup>2</sup>		
Luminous flux	3,970     12,100 lm		Terminal, 5-pin, max. 2.5 mm²		
Color rendering index	CRI ≥ 80	Housing	Polyester, glass fiber reinforced, light gray, untreated, diffuser catch made of stainless steel (V2A), ceiling attachment element made of stainless steel (V2A), chain suspension made of stainless steel (V2A)  Suspended mounting   surface-		
Luminous efficacy	up to 182 lm/W				
Beam angle	Direct, diffuse distribution, symmetric				
Cover	PMMA				
Control	ON/OFF   ON/OFF Multilumen   DALI 2	Mounting			
Temperature range	Permissible ambient temperature: see table		mounted, on the ceiling   on the wall   horizontal mounting   vertical mounting on the Licross mounting rail   for indoor or covered outdoor mounting		
Rated service life	see table				

K	CRI	lm	W	lm/W	Control	ta	IK	kg	Order no.
Service	life: 70,00	00 h at 35 °C							
4,000	≥80	3,970	22	179	ON/OFF	-35 +40 °C	04	2.5	51FP107P430H
4,000	≥80	5,800	33	178	ON/OFF	-35 +40 °C	04	2.5	51FP107P460H
4,000	≥80	12,070	66	182	ON/OFF	-35 +35 °C	04	2.5	51FP107P4B0Q
4,000	≥80	6,100	34 38	179	ON / OFF, CLOi	-35 +40 °C	04	2.5	51FP109P460H
4,000	≥80	6,050	35	175	DALI 2	-25 +40 °C	04	2.5	51FP10DP460H
4,000	≥80	6,050	35 39	175	DALI 2, CLO	-25 +40 °C	04	2.5	51FP10FP460H
4,000	≥80	12,100	68	179	DALI 2	-40 +35 °C	04	2.5	51FP10DP4B0Q
Variants	for high to	emperatures	s, service life:	70,0001	n at ta_max				
4,000	≥80	6,370	37	175	ON/OFF	-35 +55 °C	04	2.5	51FE107P460J
4,000	≥80	6,370	37	175	DALI 2	-35 +55 °C	04	2.5	51FE10DP460J
Variants	with an ex	ctremely lon	g service life	of 100,00	00 h at 25 °C	,			
4,000	≥ 80	6,100	34	180	ON/OFF	-35 +40 °C	04	2.6	51FP108P460H
4,000	≥80	6,050	35	175	DALI 2	-25 +40 °C	04	2.5	51FP10EP460H
Façade I	uminaire f	or unprotec	ted outdoor a	reas, ser	vice life: 50,000 h				
4,000	≥80	6.110	34	182	ON / OFF Multilumen	-35 +50 °C	06	2.5	51FF40MP460H

Accessories	PU	kg	Order no.
Spring clip, attachment to Licross mounting rail	2 pc.	0.1	58FM001
Wall fixing, inclinable	2 pc.	0.2	58FM002
Chain suspension for Licross, steel, galvanized	1 pc.	0.1	59TR9K
Chain, steel, galvanized	running m.	0.1	5LY9001
Single wire suspension for Licross, with wire, fastening on rail side	1 pc.	0.1	59TR9R
Single wire suspension for Licross, with ceiling sleeve, fastening on rail side	1 pc.	0.1	59TR9RS
Licross mounting rail for Monsun 21, 1-length, L 1,590 mm, white	1 pc.	1.7	58FS001
Licross mounting rail for Monsun 21, 2-length, L 3,180 mm, white	1 pc.	3.5	58FS002
Licross mounting rail for Monsun 21, 3-length, L 4,770 mm, white	1 pc.	5.2	58FS003
Licross connector for Monsun 21	1 pc.	0.3	58FS005
Licross blank cover for Monsun 21, PC+ABS, white	1 pc.	0.2	58FS006
Licross end cap, PC, white	2 pc.	0.1	59TP1S

## Monsun 21

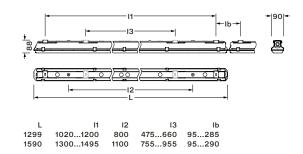
### With the highest standards of efficiency, quality and flexibility.

- · Very robust with IP66 protection rating and suitable for outdoor use in canopied outdoor areas
- Simple maintenance and easy upgrading of sensors due to tool-free opening of the luminaire
- Emergency lighting variants with single-battery supply
- CLOi also with ON / OFF models for standard-compliant lighting over the service life without excess planning and for optimized energy consumption









### Monsun 21, damp-proof luminaire with PMMA diffuser





























Color temperature	4,000 K	Rated service life	50,000 h (L85/B50) at AT = 35 °C		
Luminous flux	3,710     8,190 lm	Electrical connection	Terminal, 3-pin, max. 2.5 mm²		
Color rendering index	CRI ≥ 80	Housing	Polyester, glass fiber reinforced, light gray, untreated, diffuser catch made of stainless steel (V2A), ceiling attachment element made of stainless steel (V2A), chain suspension made of stainless steel (V2A)		
Luminous efficacy	up to 167 lm/W	_			
Beam angle	Direct, diffuse distribution, symmetric	_			
Cover	PMMA				
Control	ON / OFF   ON / OFF Multilumen   DALI 2	Mounting	Suspended mounting   surface-mounted, on the ceiling   on the wall   horizontal		
Temperature range	-25 +35 °C, emergency light: +5 +25 °C	_	mounting   vertical mounting   on the Licross mounting rail   for indoor or covered outdoor mounting		

K	CRI	lm	w	lm/W	Control	<b>L</b> mm	kg	Order no.
4,000	≥80	4,470	27	166	ON/OFF	1,299	2.1	51FB107L440J
4,000	≥80	6,010	37	162	ON / OFF Multilumen	1,299	2.1	51FB10ML460J
4,000	≥80	4,330	27	160	DALI 2	1,299	2.1	51FB10DL440J
4,000	≥80	3,710	22	167	ON/OFF	1,590	2.5	51FB107P430J
4,000	≥80	4,360	28	161	ON/OFF	1,590	2.5	51FB107P440J
4,000	≥80	6,000	38	158	ON/OFF	1,590	2.5	51FB107P460B
4,000	≥80	8,070	53	153	ON/OFF	1,590	2.5	51FB107P480B
4,000	≥ 80	8,190	54	153	ON / OFF Multilumen	1,590	2.6	51FB10MP480B
4,000	≥80	3,860	25	156	DALI 2	1,590	2.5	51FB10DP430B
4,000	≥80	4,360	28	156	DALI 2	1,590	2.5	51FB10DP440B
4,000	≥80	6,060	39	154	DALI 2	1,590	2.5	51FB10DP460B
4,000	≥80	8,090	54	149	DALI 2	1,590	2.5	51FB10DP480B
Emergeno	y lighting var	iants with sing	le-battery s	supply, 3 h				
4,000	≥80	6,060	42	143	ON/OFF	1,590	3.3	51FB107P467B3G
4,000	≥80	6,060	42	144	DALI 2	1,590	3.3	51FB10DP467B3H

Accessories	PU	kg	Order no.
Spring clip, attachment to Licross mounting rail	2 pc.	0.1	58FM001
Wall fixing, inclinable	2 pc.	0.2	58FM002
Chain suspension for Licross, steel, galvanized	1 pc.	0.1	59TR9K
Chain, steel, galvanized	running m.	0.1	5LY9001
Single wire suspension for Licross, with wire, fastening on rail side	1 pc.	0.1	59TR9R
Single wire suspension for Licross, with ceiling sleeve, fastening on rail side	1 pc.	0.1	59TR9RS
Licross mounting rail for Monsun 21, 1-length, L 1,590 mm, white	1 pc.	1.7	58FS001
Licross mounting rail for Monsun 21, 2-length, L 3,180 mm, white	1 pc.	3.5	58FS002
Licross mounting rail for Monsun 21, 3-length, L 4,770 mm, white	1 pc.	5.2	58FS003
Licross connector for Monsun 21	1 pc.	0.3	58FS005
Licross blank cover for Monsun 21, PC+ABS, white	1 pc.	0.2	58FS006
Licross end cap, PC, white	2 pc.	0.1	59TP1S

## Monsun 21 Eco

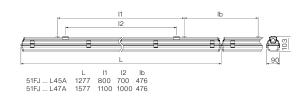
### Professional quality for everyday needs. Efficient and reliable.

- Ideal for renovating old systems with fluorescent lamps with luminaire lengths of 1,277 mm / 1,577 mm
- Openable damp-proof luminaire with very good price/performance ratio
- Housing made of extremely durable and ultra-stable glass fiber reinforced plastic (GRP)
- · Variable lumen packages with multilumen driver









### Monsun 21 Eco, damp-proof luminaire

















Color temperature	4,000 K	Temperature range	−20 +35 °C		
Luminous flux	2,900     7,000 lm	Rated service life	50,000 h (L80/B50) at AT = 25 °C		
Color rendering index	CRI ≥ 80	Electrical connection	Terminal, 3-pin, max. 2.5 mm²		
Luminous efficacy	up to 142 lm/W	Housing	Polyester glass fiber reinforced, light gray		
Beam angle	Diffuse distribution, symmetric		(RAL 7035), diffuser catch, spring steel (V2A)		
Cover	PMMA, frosted diffuser	Marintina			
Control	ON / OFF Multilumen   DALI	Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling   on the w		

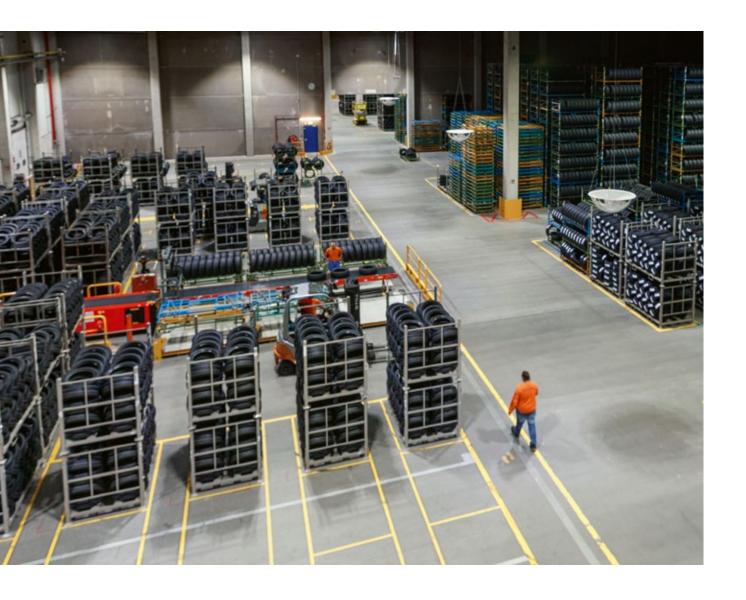
K	CRI	lm	W	lm/W	Control	L mm	kg	Order no.
4,000	≥ 80	2,900   3,500   4,300   5,000	20   25   31   36	139	ON / OFF Multilumen	1,277	1.8	51FJ10ML45A
4,000	≥ 80	5,100	36	142	DALI	1,277	1.8	51FJ10DL45A
4,000	≥ 80	4,000   5,000   6,000   7,000	29   36   43   50	140	ON / OFF Multilumen	1,577	2.1	51FJ10MP47A
4,000	≥ 80	7,000	50	140	DALI	1,577	2.1	51FJ10DP47A

Accessories	PU	kg	Order no.
Chain, steel, galvanized	running m.	0.1	5LY9001
Link chain, stainless steel (V2A)	running m.	0.1	5LY9002
Emergency link, stainless steel (V2A)	1 pc.	0.1	5LY9004

## Monsun 31 Tube

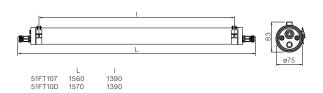
### The gas-proof luminaire for use in particularly critical areas.

- · Resistant to harmful gases, such as sulfur in tire production and storage or ammonia in livestock farming
- Protected against hot water jets from the high-pressure cleaner and suitable for unprotected outdoor areas thanks to IP67 / IP69K protection rating
- · Tube made of PMMA with end caps made of stainless steel (V4A)
- · With through-wiring and external terminal for individual connection options









### Monsun 31 Tube, damp-proof luminaire





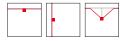












Color temperature	4,000 K
Luminous flux	6,500     10,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	160 lm/W
Beam angle	Diffuse distribution, symmetric
Cover	PMMA, diffuser
Control	ON/OFF DALI2

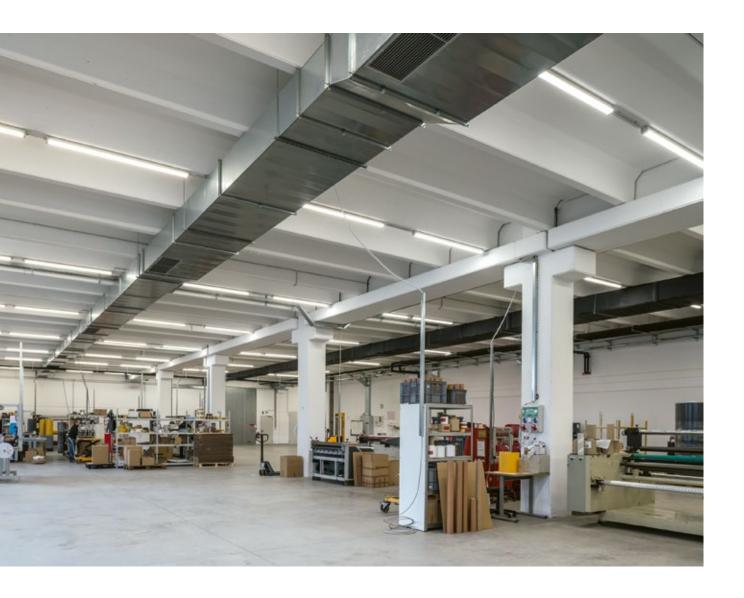
Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3 × max. 2.5 mm²   Terminal, 5 × max. 2.5 mm²
Housing	PMMA, cylindrical, matt white, semi- transparent, end cap, stainless steel (V4A)
Mounting	Suspended installation   surface-mounted, on the ceiling   on the wall

K	CRI	lm	W	lm/W	Control	<b>L</b> mm	kg	Order no.
Through-v	viring of 3×1	.5 mm²			'	'		
4,000	≥ 80	6,500	41	160	ON/OFF	1,560	1.8	51FT107N460A
4,000	≥ 80	8,000	50	160	ON/OFF	1,560	1.8	51FT107N480A
4,000	≥ 80	10,000	62	160	ON/OFF	1,560	1.8	51FT107N4A0A
Through-v	viring of 5×1	.5 mm²						,
4,000	≥ 80	6,500	41	160	DALI 2	1,570	1.9	51FT10DN460A
4,000	≥ 80	8,000	50	160	DALI 2	1,570	1.9	51FT10DN480A
4,000	≥ 80	10,000	62	160	DALI 2	1,570	1.9	51FT10DN4A0A

## Monsun 31

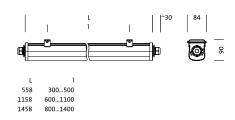
### The simple solution for demanding tasks.

- Ideal for replacing old damp-proof luminaires with fluorescent lamps by using existing mounting points thanks to variably positionable mounting clips
- · Quick installation thanks to tool-free contacting and integrated through-wiring
- Robust housing, economical operation, long system life up to 50,000 h (L80/B50)
- · Optimized, highly efficient LED system









### Monsun 31, damp-proof luminaire



























Color temperature	4,000 K
Luminous flux	2,300     6,700 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 136 lm/W
Beam angle	Diffuse distribution, symmetric
Cover	PC, diffuser
Control	ON / OFF   DALI 2

Temperature range	−20 + 40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, $3 \times \text{max}$ . $2.5  \text{mm}^2 + 1 \times \text{max}$ . $1.5  \text{mm}^2 \mid \text{Terminal}$ , $3 \times \text{max}$ . $2.5  \text{mm}^2 + 3 \times \text{max}$ . $1.5  \text{mm}^2$
Housing	PC, light gray (RAL 7035)
Mounting	Surface-mounting, on the ceiling   on the wall

K	CRI	lm	W	lm/W	Control	<b>L</b> mm	kg	Order no.
Through-	wiring of 3 × 2	2.5 mm <sup>2</sup> + 3 × 1	l.5 mm²				,	
4,000	≥ 80	2,300	19	121	ON/OFF	558	0.7	51FA207D420B
4,000	≥ 80	3,000	22	136	ON/OFF	1,158	1.2	51FA207K430B
4,000	≥ 80	5,100	38	134	ON/OFF	1,158	1.2	51FA207K450B
4,000	≥ 80	3,800	28	136	ON/OFF	1,458	1.4	51FA207P430B
4,000	≥ 80	6,700	50	134	ON/OFF	1,458	1.5	51FA207P460B
Through-	wiring of 3 × 2	2.5 mm <sup>2</sup> + 3 × 1	l.5 mm²					
4,000	≥ 80	2,300	19	121	DALI 2	558	0.8	51FA20DD420B
4,000	≥ 80	3,000	22	136	DALI 2	1,158	1.3	51FA20DK430B
4,000	≥ 80	5,100	38	134	DALI 2	1,158	1.3	51FA20DK450B
4,000	≥ 80	3,800	28	136	DALI 2	1,458	1.5	51FA20DP430B
4.000	≥ 80	6.700	50	134	DALI 2	1.458	1.5	51FA20DP460B

Accessories	PU	kg	Order no.
Chain, steel, galvanized	running m.	0.1	5LY9001
Emergency light element	1 pc.	0.7	58FA207A403B3G
Multisensor, light gray (RAL 7035)	1 pc.	0.1	58FA101

## Powerbrik

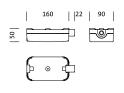
### Simple, small, robust.

- Compact, robust luminaire to replace conventional basement oval luminaires for demanding ambient conditions
- Housing and cover of impact-resistant PC (up to IK09)
- · High installation/operating safety due to encapsulated LED and ECG unit









### Powerbrik, damp-proof luminaire















Color temperature	4,000 K
Luminous flux	900 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	95 lm/W
Beam angle	Diffuse distribution, symmetric
Cover	PC
Control	ON/OFF

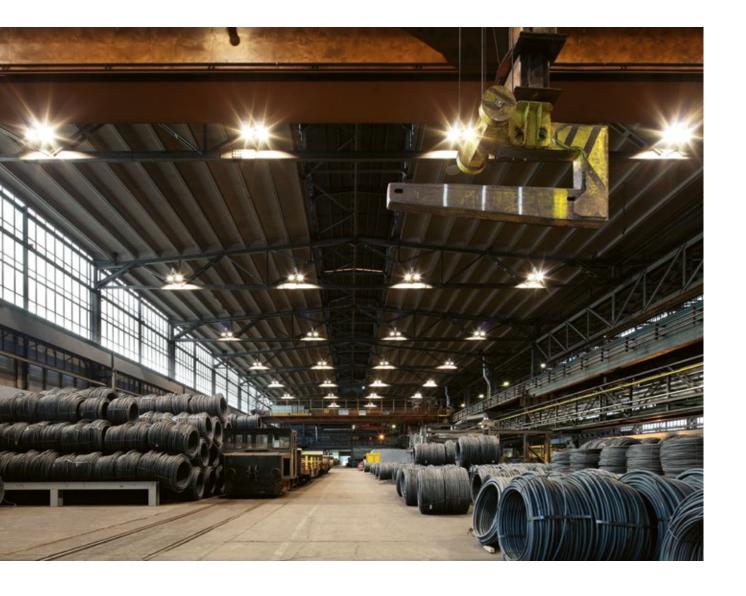
Temperature range	−20 +40 °C
Rated service life	50,000 h (L70/B50) at AT = 25 °C
Electrical connection	Terminal, 2-pin, max. 1.5 mm²
Housing	Housing made of PC, traffic white (RAL 9016)
Mounting	Surface-mounting, on the ceiling   on the wall

K	CRI	lm	W	lm/W	Control	kg	Order no.
4,000	≥ 80	900	9.5	95	ON/OFF	0.3	0LS5297L10840

## Highbay 11 Xtreme

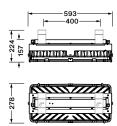
### The robust performance solution with maximum efficiency and service life.

- · High-bay luminaire for use in particularly extreme ambient conditions
- $\cdot\,$  Suitable for very high room heights and permanently high ambient temperatures of up to +70 °C
- · Service life of up to 100,000 h
- · Extremely high efficiency of up to 194 lm/W









### Highbay 11 Xtreme, high-bay luminaire











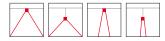










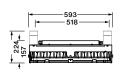


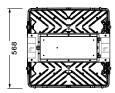
Color temperature	4,000 K	
Luminous flux	18,500     34,200 lm	
Color rendering index	CRI ≥ 80	i
Luminous efficacy	up to 194 lm/W	i
Beam angle	Direct, narrow distribution   wide distribution	i
Cover	Toughened safety glass	i

Control	DALI 2			
Temperature range	-25 +45 °C   -25 +70 °C			
Rated service life	100,000 h (L85/B50) at AT = 45 °C			
Electrical connection	Terminal, 5-pin, max. 2.5 mm²			
Housing	Die-cast aluminum, silver, partially coated, white aluminum (RAL 9006)			
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling			

K	CRI	ım	w	Im/W	Control	ta	кg	Order no.
Narrow di	istribution, 1	× LED module						
4,000	≥ 80	18,700	96	194	DALI 2	-25 +70 °C	7.5	51HF61DA4HMA
4,000	≥ 80	34,200	188	182	DALI 2	-25 +45 °C	7.5	51HF81DA4NMA
Wide dist	ribution, 1×L	.ED module	'	'	,	,		,
4,000	≥ 80	18,500	97	192	DALI 2	-25 +70 °C	7.5	51HF62DA4HMA
4,000	≥ 80	33,700	188	180	DALI 2	-25 +45 °C	7.5	51HF82DA4NMA







### Highbay 11 Xtreme, high-bay luminaire



























Color temperature	4,000 K
Luminous flux	36,800     69,400 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	178 lm/W
Beam angle	Direct, narrow distribution   wide distribution
Cover	Toughened safety glass

Control	DALI 2			
Temperature range				
Rated service life 100,000 h (L85/B50) at AT = 45 °C				
Electrical connection	Terminal, 5-pin, max. 2.5 mm²			
Housing	Die-cast aluminum, silver, partially coated, white aluminum (RAL 9006)			
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling			

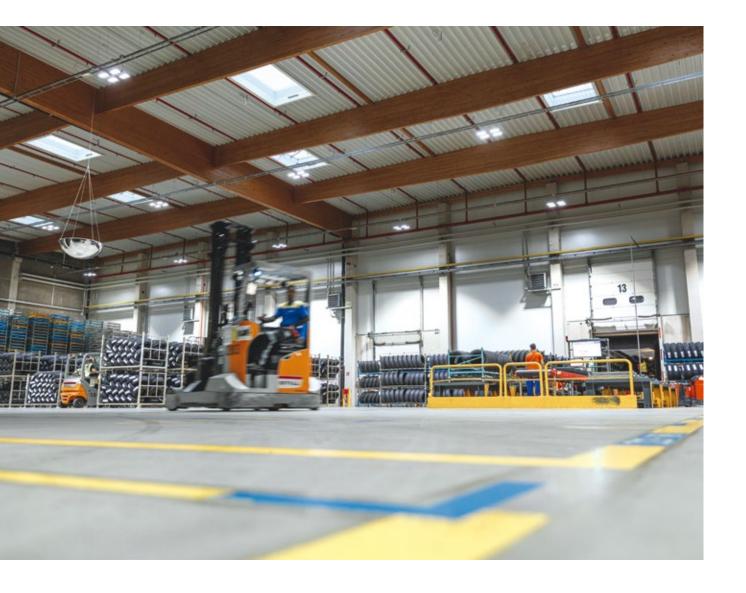
K	CRI	lm	w	lm/W	Control	ta	kg	Order no.
Narrow di	stribution, 2	× LED module		'		·		
4,000	≥ 80	37,300	194	192	DALI 2	-25 +70 °C	14.2	51HF61DB4QMA
4,000	≥ 80	69,400	380	183	DALI 2	-25 +45 °C	14.2	51HF81DB4VMA
Wide dist	ribution, 2×I	ED module			,			
4,000	≥ 80	36,800	194	190	DALI 2	-25 +70 °C	14.2	51HF62DB4QMA
4,000	≥ 80	68,500	380	180	DALI 2	-25 +45 °C	14.2	51HF82DB4VMA



# Highbay 11

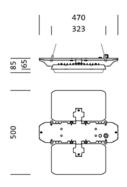
### The top standard in hall lighting.

- Wide range of applications for demanding hall lighting solutions thanks to three different sizes, various light distributions and diverse mounting options
- Low operating costs and top visual comfort with up to UGR ≤ 22 through the highly efficient, lens-based optical system
- Resistance to ambient temperatures of up to 70 °C, IK08 and IP65 for long-lasting, reliable operation









### Highbay 11, high-bay luminaire































_				
Tec	hni	ical	data	

Color temperature	4,000 K	- 1
Luminous flux	10,200     14,400 lm	_
Color rendering index	CRI ≥ 80	
Luminous efficacy	up to 180 lm/W	_ i
Beam angle	Direct, narrow distribution   wide distribution	i
Cover	PMMA cover plate	
Control	DALI	_ ı
Temperature range	Permissible ambient temperature: see table	

Rated service life	100,000 h (L85/B50) at AT = 25 °C, 70,000 h (L85/B50) at AT = ta_max   70,000 h (L90/B50) at AT = 25 °C, 50,000 h (L90/B50) at AT = ta_max
Electrical connection	Terminal, 5-pin, max. 2.5 mm <sup>2</sup>
Housing	Die-cast aluminum, uncoated, bead-blasted, silver   51HL62 coated, white aluminum (RAL 9006)
Mounting	Suspended mounting, on the chain   on the cable   surface-mounted, on the ceiling

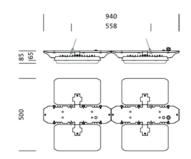
Impact resistance: IK08 with glass cover; ball impact resistance: ballproof in accordance with DIN VDE 0710 Part 13 (with chain suspension)

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
narrow di	stribution, 3	5°, 1 × 2 × LED m	odules					
4,000	≥ 80	14,060	81	173	DALI	-35 +55 °C	4.3	51HLA1D14FCA
wide dist	ribution, 90°,	1×2×LED mod	lules					
4,000	≥ 80	10,020	56	180	DALI	-35 +70 °C	4.3	51HL62D14DCA
4 000	> 80	14 400	81	177	DALI	-35 +55°C	4.3	51HLA2D14FCA

Accessories	PU	kg	Order no.
Cover, glass, L = 313 mm, W = 174 mm	2 pc.	0.6	59HL91001
Quadruple chain suspension, steel, galvanized	1 pc.	0.5	59HL92001
Dual chain suspension, steel, galvanized	2 pc.	0.5	59HL92002
Chain, steel, galvanized	running m.	0.1	5LY9001
Ceiling mounting bracket, steel, galvanized, suspension height 160 mm	2 pc.	0.8	59HL92006







### Highbay 11, high-bay luminaire

































### **Technical data**

Color temperature	4,000 K
Luminous flux	20,050     33,150 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 180 lm/W
Beam angle	Direct, narrow distribution   wide distribution
Cover	PMMA cover plate
Control	DALI
Temperature range	Permissible ambient temperature: see table

100,000 h (L85/B50) at AT = 25 °C, 70,000 h (L85/B50) at AT = ta_max   70,000 h (L90/B50) at AT = 25 °C, 50,000 h (L90/B50) at AT = ta_max
Terminal, 5-pin, max. 2.5 mm <sup>2</sup>
Die-cast aluminum, uncoated, bead-blasted, silver   51HL62 coated, white aluminum (RAL 9006)
Suspended mounting, on the chain   on the cable   surface-mounted, on the ceiling

Impact resistance: IK08 with glass cover; ball impact resistance: ballproof in accordance with DIN VDE 0710 Part 13 (with chain suspension)

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Narrow di	stribution, 3	5°, 2 × 2 × LED n	nodules	l l				
4,000	≥ 80	28,120	162	173	DALI	-35 +55 °C	8.8	51HLA1D24MCA
4,000	≥ 80	32,370	190	171	DALI	-35 +45 °C	8.8	51HLA1D24NCA
Wide dist	ribution, 90°,	2×2×LED mo	dules					
4,000	≥ 80	20,050	111	180	DALI	-35 +70 °C	8.8	51HL62D24HCA
4,000	≥ 80	28,800	162	177	DALI	−35 +55 °C	8.8	51HLA2D24MCA
4,000	≥ 80	33,150	190	175	DALI	-35 +45 °C	8.8	51HLA2D24NCA

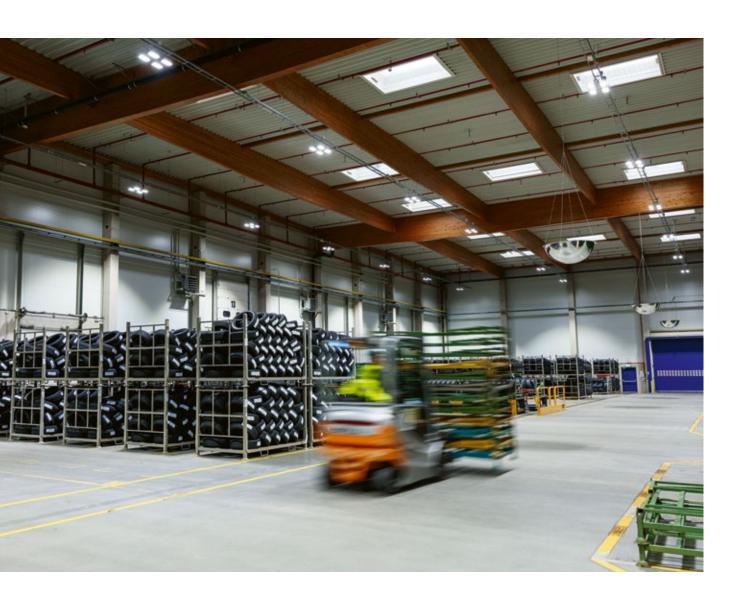
Accessories	PU	kg	Order no.
Cover, glass, L = 313 mm, W = 174 mm	2 pc.	0.6	59HL91001
Quadruple chain suspension, steel, galvanized	1 pc.	0.5	59HL92001
Dual chain suspension, steel, galvanized	2 pc.	0.5	59HL92002
Chain, steel, galvanized	running m.	0.1	5LY9001
Ceiling mounting bracket, steel, galvanized, suspension height 160 mm	2 pc.	0.8	59HL92006



# Highbay 21

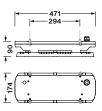
### The performer.

- Ideal for uncomplicated refurbishment of hall lighting thanks to simple selection of performance packages and light distribution
- Replaces conventional luminaires with 250 W HIE / 400 W HME or  $400\,\mathrm{W}$  HIE /  $250\,\mathrm{W}$  HSE
- High lumen packages available for high halls or to reduce the number of light points during refurbishment
- Low operating costs thanks to efficient electronics and optimized, lens-based optical system
- Resilient in harsh environments with IK08 and IP66 for long-lasting, reliable operation









### Highbay 21-S, highbay luminaire































Color temperature	4,000 K
Luminous flux	13,400     19,200 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 180 lm/W
Beam angle	Direct, narrow distribution   wide distribution
Cover	PMMA cover plate
Control	DALI 2

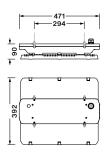
Temperature range	-30 °C +60 °C
Rated service life	100,000 h (L80/B50) at AT = 60 °C (51HKJCA: at AT = 55 °C), 70,000 h (L85/B50) at AT = 60 °C (51HKJCA: at AT = 55 °C)
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Die-cast aluminum, painted gray
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling

K	CRI	lm	w	lm/W	Control	kg	Order no.
narrow distri	bution, 35°, 1 × 2 × I	ED modules					
4,000	≥ 80	13,400	75	179	DALI 2	4.1	51HK41DA4GCA
4,000	≥ 80	19,100	107	179	DALI 2	4.1	51HK41DA4JCA
wide distribu	tion, 90°, 2×2×LE	D modules		'	'		,
4,000	≥ 80	13,500	75	180	DALI 2	4.1	51HK42DA4GCA
4 000	> 80	19 200	107	179	DALL2	41	51HK42DA4JCA

Accessories	PU	kg	Order no.
Quadruple chain suspension, steel, galvanized	1 pc.	0.5	59HL92001
Dual chain suspension, steel, galvanized	2 pc.	0.5	59HL92002
Chain, steel, galvanized	running m.	0.1	5LY9001
Ceiling mounting bracket, steel, galvanized, suspension height 160 mm	2 pc.	0.8	59HL92006







### Highbay 21-L, highbay luminaire



























4,000 K
26,200     36,000 lm
CRI ≥ 80
up to 180 lm/W
Direct, narrow distribution   wide distribution
PMMA cover plate

Control	DALI 2
Temperature range	-30 +60 °C
Rated service life	100,000 h (L80/B50) at AT = $60$ °C, 70,000 h (L85/B50) at AT = $60$ °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm <sup>2</sup>
Housing	Die-cast aluminum, painted gray
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
Narrow distri	bution, 35°, 2×2×	LED modules					
4,000	≥ 80	26,200	147	178	DALI 2	7.8	51HK41DB4MCA
4,000	≥ 80	35,600	200	178	DALI 2	7.8	51HK41DB4QCA
Wide distribu	ıtion, 90°, 2×2×LE	D modules			,		
4,000	≥ 80	26,500	147	180	DALI 2	7.8	51HK42DB4MCA
4.000	≥ 80	36.000	200	180	DALI 2	7.8	51HK42DB4QCA

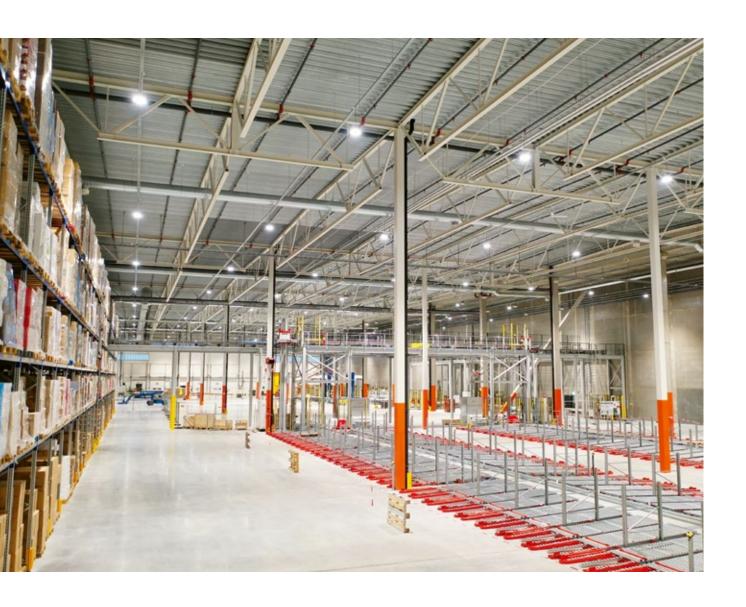
Accessories	PU	kg	Order no.
Quadruple chain suspension, steel, galvanized	1 pc.	0.5	59HL92001
Dual chain suspension, steel, galvanized	2 pc.	0.5	59HL92002
Chain, steel, galvanized	running m.	0.1	5LY9001
Ceiling mounting bracket, steel, galvanized, suspension height 160 mm	2 pc.	0.8	59HL92006



# Highbay 31

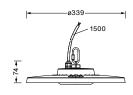
### The all-rounder: reliable, efficient and intelligently controllable.

- · Perfect for 1:1 replacement of conventional highbay luminaires with suitable lumen packages
- Replaces conventional luminaires with 250 W HIE / 400 W HME or 400 W HIE / 250 W HSE
- Long service life of 100,000 h (L70/B50) at AT = 35 °C
- Can also be used at increased ambient temperatures of up to 45 °C due to excellent thermal management for LED and driver
- · Reflectors made of aluminum and PC to optimize glare control (accessories)
- Efficient light control and good visual comfort in narrow and wide distribution due to lens optic made of robust, UV-stabilized PC
- Suitable for demanding ambient conditions (IP65/IK08) and for the food industry (IFS)
- · Variants available with integrated PIR-sensor









### Highbay 31 S, high-bay luminaire























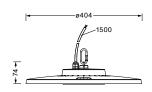
recinical data			
Color temperature	3,000 K   4,000 K	Rated service life	100,000 h (L70/B50) at AT = 35 °C,
Luminous flux	14,000     20,000 lm		70,000 h (L80/B50) at AT = 45 °C, 50,000 h (L85/B50) at AT = 45 °C
Color rendering index	CRI ≥ 80	Electrical connection	Cable, 3 × 1.0 mm   5 × 1.0 mm,
Luminous efficacy	150 lm/W	Electrical confilection	free wire ends, length 1.5 m
Beam angle	Direct distribution, rotationally symmetric	Housing	Die-cast aluminum, incl. hook on
Cover	Cover plate made of PC, clear	•	luminaire side, incl. screw,
Control	ON/OFF   DALI 2		gray aluminum (RAL 9007)
Temperature range	-30 +45 °C	Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
Rotationally	symmetric distribut	ion, 60°					
4,000	≥ 80	14,000	94	150	ON/OFF	2.3	51HC417A4FMB
4,000	≥ 80	14,000	94	150	DALI 2	2.9	51HC41DA4FMB
4,000	≥ 80	20,000	134	150	ON/OFF	2.4	51HC417A4JMB
Rotationally	symmetric distribut	ion, 90°				·	
4,000	≥ 80	14,000	94	150	ON/OFF	2.3	51HC427A4FMB
4,000	≥ 80	14,000	94	150	DALI 2	2.9	51HC42DA4FMB
4 000	> 80	20.000	134	150	ON / OFF	2.4	51HC427A4JMB

Accessories	PU	kg	Order no.
Connectivity: Plug/socket, IP65, 3-pin, max. 2.5 mm <sup>2</sup>	1 pc.	0.1	5NX30003
Connectivity: Plug/socket, IP65, 5-pin, max. 2.5 mm <sup>2</sup>	1 pc.	0.1	5NX30005
Reflector, Ø = 480 mm, PC, clear prismatic structure, rotationally symmetric narrow to wide distribution	1 pc.	1.4	59HC91002
Reflector, Ø = 433 mm, aluminum, Alu-Soft, rotationally symmetric narrow to wide distribution	1 pc.	0.3	59HC91004
Support bracket	1 pc.	1.0	59HC92002







### Highbay 31 L, High-bay luminaire























3,000 K   4,000 K
20,000     28,000 lm
CRI ≥ 80
150 lm/W
Direct distribution, rotationally symmetric
Cover plate made of PC, clear
ON / OFF   DALI 2
-30 +45 °C

Rated service life	life 100,000 h (L70/B50) at AT = 35 °C, 70,000 h (L80/B50) at AT = 45 °C, 50,000 h (L85/B50) at AT = 45 °C	
Electrical connection	Cable, $3 \times 1.0$ mm   $5 \times 1.0$ mm, free wire ends, length 1.5 m	
Housing	Die-cast aluminum, gray aluminum (RAL 9007), incl. hook on luminaire side, incl. screw	
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling	

K	CRI	lm	W	lm/W	Control	kg	Order no.
Rotationally	symmetric distribut	ion, 60°	·				
4,000	≥ 80	20,000	134	150	DALI 2	3.7	51HC41DA4JMB
4,000	≥ 80	28,000	187	150	ON/OFF	3.0	51HC417A4MMB
4,000	≥ 80	28,000	187	150	DALI 2	3.8	51HC41DA4MMB
Rotationally	symmetric distribut	ion, 90°					
4,000	≥ 80	20,000	134	150	DALI 2	3.7	51HC42DA4JMB
4,000	≥ 80	28,000	187	150	ON/OFF	3.0	51HC427A4MMB
4,000	≥ 80	28,000	187	150	DALI 2	3.8	51HC42DA4MMB

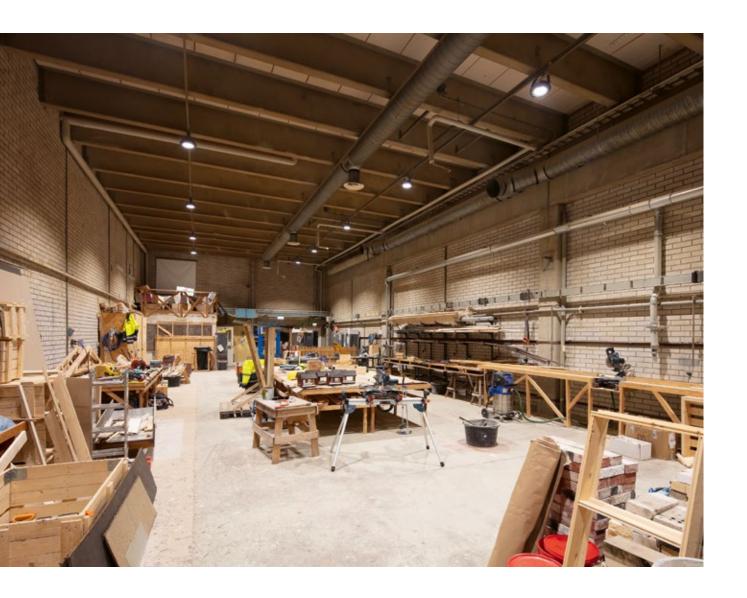
PU	kg	Order no.
1 pc.	0.1	5NX30003
1 pc.	0.1	5NX30005
1 pc.	1.4	59HC91002
1 pc.	0.3	59HC91004
1 pc.	1.0	59HC92002
	1 pc. 1 pc. 1 pc. 1 pc.	1 pc. 0.1 1 pc. 0.1 1 pc. 1.4 1 pc. 0.3



# Highbay 42

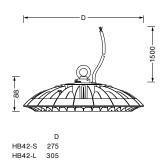
### Our simple solution: Highbay 42 is our high-bay luminaire with the simplest requirements for efficiency and quality.

- Long service life (50,000 h L80) and use at elevated ambient temperatures up to 40 °C thanks to excellent thermal management of LEDs and driver
- · Multilumen version with DIP switch
- Efficient light control and good visual comfort with wide distribution lens optic made of robust UV-stabilized PC
- · Reflectors made of aluminum and PP available as accessories for optimizing glare control
- Suitable for demanding ambient conditions (IP65/IK08) and for the food industry (IFS)









#### Highbay 42, high-bay luminaire



















Color temperature	4,000 K	Temperature range	−20 +40 °C	
Luminous flux	12,800     28,000 lm	Rated service life	50,000 h (L80/B50) at AT = 25 °C	
Color rendering index	CRI ≥ 80	Electrical connection	Cable, 3×1.0 mm², free wire ends,	
Luminous efficacy	160 lm/W		length 1.5 m	
Beam angle	Direct distribution, rotationally symmetric, 90°	Housing	Die-cast aluminum, black, incl. hook on luminaire side	
Cover	Cover plate made of PC, clear	Mounting	Suspended mounting, on the chain	
Control ON / OFF   ON / OFF Multilumen			surface-mounted, on the ceiling	

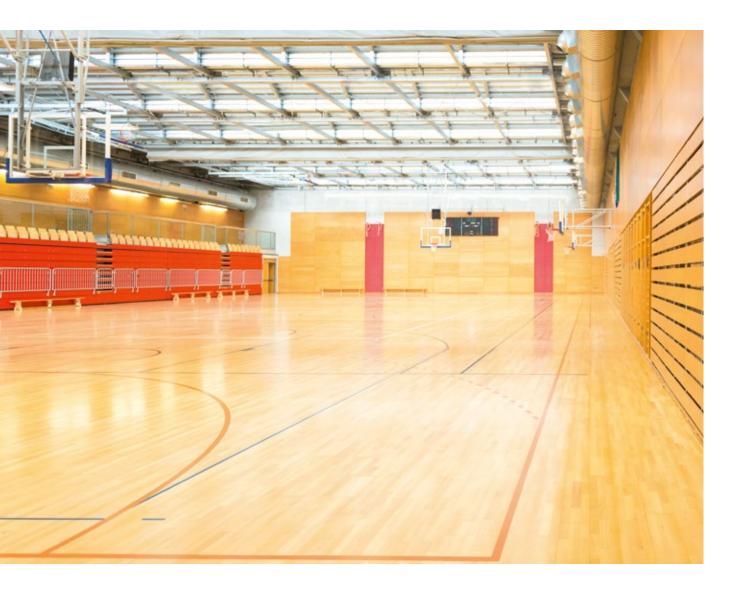
K	CRI	lm	W	lm/W	Control	kg	Order no.
Highbay 4	l2-S, Ø 275 m	m, rotationally symmetric	distribution	, 90°		'	
4,000	> 80	12,800	80	160	ON/OFF	1.8	51HP327A4FMA
4,000	> 80	19,200	120	160	ON/OFF	1.8	51HP327A4HMA
Highbay 4	I2-L, Ø 305 m	m, rotationally symmetric	distribution	, 90°			
4,000	≥ 80	10,000 28,000	175	160	ON / OFF Multilumen	2.4	51HP32MB4MMA
5,700	≥ 80	10,000 28,000	175	160	ON / OFF Multilumen	2.4	51HP32MB7MMA

Accessories	PU	kg	Order no.
Reflector, $\emptyset$ = 410 mm, PC, clear prismatic structure, rotationally symmetric, wide distribution, 100°	1 pc.	0.5	59HP91001
Reflector, Ø = 435 mm, aluminum, Alu-Soft, rotationally symmetric, wide distribution, 100°	1 pc.	0.4	59HP91003
Support bracket, 166 mm	1 pc.	0.4	59HP92001
Chain, steel, galvanized	running m.	0.1	5LY9001
Link chain, stainless steel (V2A)	running m.	0.1	5LY9002

## Sport 31

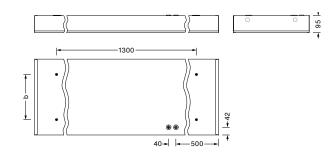
#### The athlete among highbay luminaires.

- Precisely coordinated lumen packages for any room height
- · High visual comfort even for overhead sports due to first-class glare control
- · Ballproof, solid and robust
- Simple and fast mounting due to easily accessible mounting space and preparation for continuous row mounting









B b
51HS12DC3DCA 315 147
51HS12DC4DCA 315 147
51HS12DC4ECA 315 147
51HS12DC4GCA 415 247

#### Sport 31, high-bay luminaire





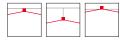












Color temperature	3,000 K   4,000 K
Luminous flux	7,500     20,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 137 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PC cover plate
Control	DALI 2

Temperature range	−20 +35 °C
Rated service life	50,000 h (L85/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Sheet steel, traffic white (RAL 9016)
Mounting	Suspended mounting, on the chain   surface-mounted, on the ceiling   recessed, in the ceiling

K	CRI	lm	w	lm/W	Control	kg	Order no.
Width 315 mm	1						
3,000	≥ 80	7,500	58	130	DALI 2	12.5	51HS12DC3DCA
4,000	≥ 80	8,000	58	135	DALI 2	12.5	51HS12DC4DCA
4,000	≥ 80	12,000	88	137	DALI 2	12.5	51HS12DC4ECA
Width 415 mm	1						
4,000	≥ 80	16,000	117	137	DALI 2	14.8	51HS12DD4GCA
4,000	≥ 80	20,000	146	137	DALI 2	14.8	51HS12DD4JCA

Accessories	PU	kg	Order no.
Recessing frame, for luminaire L ×W 1540 × 315 mm	1 pc.	2.6	59HS91001
Recessing frame, for luminaire L ×W 1540 × 415 mm	1 pc.	2.7	59HS91002
Chain suspension, steel, galvanized	1 pc.	0.8	59HS91003
Chain suspension, steel, galvanized	1 pc.	0.7	59HS91004
Through-wiring, 5-core, 1.5 mm <sup>2</sup> , for seamless continuous rows	1 pc.	0.3	59HS92001

### Mira 11 / 21

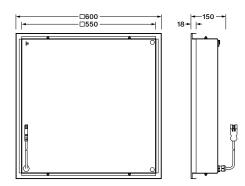
#### Luminaires for clean room applications.

- · Precise installation in all commonplace ceiling systems
- · Simple connection via plug connector
- · Flush covers for easy cleaning
- · Variants with rear inspection option for uninterrupted operation
- · Individual sizes and a wide range of equipment variants possible on a project-specific basis









#### Mira 11, clean room luminaire with toughened safety glass











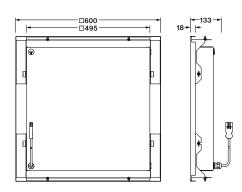
Color temperature	4,000 K
Luminous flux	3,060     6,100 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 133 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Toughened safety glass
Control	ON/OFF

Temperature range	-5 +40 °C
Rated service life	75,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²
Housing	Sheet steel, coated, pure white, with concealed magnets
Mounting	Recessed, in the ceiling, for flush installation in metal cassettes, inspection from below

K	CRI	lm	w	lm/W	Control	kg	Order no.
4,000	≥ 80	3,060	23	133	ON/OFF	13.0	on request
4,000	≥ 80	4,610	37	125	ON/OFF	13.0	on request
4,000	≥ 80	6,100	53	115	ON/OFF	13.0	on request







#### Mira 11 SL, clean room luminaire with PC cover











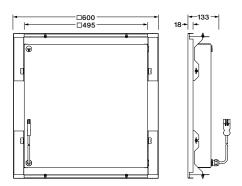
Color temperature	4,000 K
Luminous flux	3,150     5,850 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 113 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Toughened safety glass
Control	ON/OFF

Temperature range	-5 +40 °C
Rated service life	75,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²
Housing	Sheet steel, coated, pure white, with concealed magnets
Mounting	Recessed, in the ceiling, for flush installation in metal cassettes, inspection from below

K	CRI	lm	W	lm/W	Control	kg	Order no.
4,000	≥ 80	3,150	28	113	ON/OFF	10.0	on request
4,000	≥ 80	4,430	40	111	ON/OFF	10.0	on request
4,000	≥ 80	5,850	58	101	ON/OFF	10.0	on request







#### Mira 21, clean room luminaire with PC cover









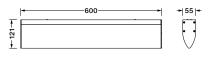
Color temperature	4,000 K
Luminous flux	3,220     6,420 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 140 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PC
Control	ON/OFF

Temperature range	-5 +40 °C
Rated service life	75,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²
Housing	Sheet steel, coated, pure white, with concealed spring clips
Mounting	Recessed, in the ceiling, for flush installation in metal cassettes, inspection from below

K	CRI	lm	w	lm/W	Control	kg	Order no.
4,000	≥ 80	3,220	23	140	ON/OFF	11.0	on request
4,000	≥ 80	4,860	37	131	ON/OFF	11.0	on request
4,000	≥ 80	6,420	53	121	ON/OFF	11.0	on request







#### Mira 21 TD, clean room luminaire with PMMA cover











Color temperature	4,000 K
Luminous flux	4,430   5,040 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 149 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PMMA, frosted

Control	ON/OFF
Temperature range	-5 +40 °C
Rated service life	75,000 h (L85/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²
Housing	Sheet steel, coated, pure white
Mounting	Surface-mounted, on the ceiling

K	CRI	lm	w	lm/W	Control	<b>L</b> mm	kg	Order no.
4,000	≥ 80	4,030	27	149	ON/OFF	1,200	2.6	51FR527K444A
4,000	≥ 80	5,040	34	148	ON/OFF	1,500	3.3	51FR527P454A



### Monsun Ex

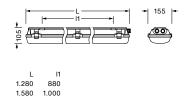
#### For use in potentially explosive atmospheres.

- Luminaires for use in hazardous areas with occasional (1/21) or infrequent (2/22) risk of explosion due to gaseous substances or dusts
- Extremely robust housing made of impact-resistant polycarbonate (IK10) with high protection rating (IP66)
- · Flexible thanks to integrated through-wiring and individual connection options
- · ATEX-certified









#### Monsun Ex, explosion-proof luminaire

























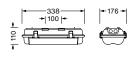


Color temperature	4.000 K	Temperature range	Zone 1 / 21: -20 +50 °C	
Luminous flux	4,503     6,754 lm		Zone 2 / 22: -20 +45 °C	
Color rendering index	CRI ≥ 80	Rated service life	70,000 h (L80/B50) at AT = 25 °C	
Luminous efficacy	up to 155 lm/W	Electrical connection	Terminal, 3-pin max. 2.5 mm <sup>2</sup>	
Beam angle	Direct, wide distribution, symmetric		Terminal, 5-pin max. 2.5 mm <sup>2</sup>   Integrated through-wiring 5 × 2.5 mm	
Cover	Prismatic cover made of non-yellowing PC	Housing	Polycarbonate, light gray, mounting clips	
Control	ON / OFF   DALI 2		made of stainless steel (V4A)	

K	CRI	lm	W	lm/W	Control	<b>L</b> mm	kg	Order no.
Zone 1 / 21								
4,000	≥ 80	4,654	30	155	ON/OFF	1,280	5.5	51FXA27L440A
4,000	≥ 80	6,561	53	124	ON/OFF	1,280	5.5	51FXA27L460A
Zone 1 / 21	l, emergency lig	hting variant witl	n single batte	ry supply, 3 h				
4,000	≥ 80	6,561	53	124	ON/OFF	1,280	6.9	51FXA27L460A3G
Zone 2 / 2	2							
4,000	≥ 80	4,503	29	155	ON/OFF	1,280	2.8	51FXB27L440A
4,000	≥ 80	4,503	29	155	DALI 2	1,280	2.8	51FXB2DL440A
4,000	≥ 80	6,754	44	154	ON/OFF	1,580	3.7	51FXB27P460A
Zone 2 / 2	2, emergency lig	ghting variant wit	th single batte	ery supply, 3 h				
4,000	≥ 80	4,503	36	125	ON/OFF	1,280	3.8	51FXB27L440A3G
4,000	≥ 80	6,754	50	136	ON/OFF	1,580	4.3	51FXB27P460A3G







#### Monsun Ex Compact, explosion-proof luminaire





















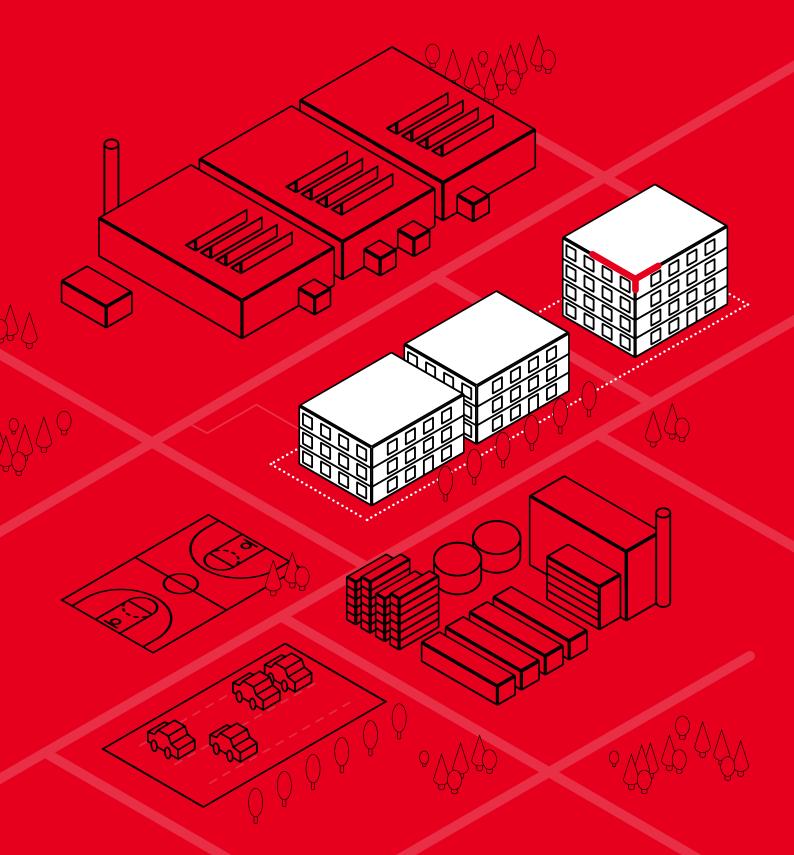
Color temperature	4,000 K
Luminous flux	1,604     2,537 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 128 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Prismatic cover made of non-yellowing PC
Control	ON / OFF   DALI 2

Temperature range	-20 +40 °C   -20 +50 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin max. 2.5 mm²   Terminal, 5-pin max. 2.5 mm²
Housing	Polycarbonate, light gray, mounting clips made of stainless steel (V4A)
Mounting	Surface-mounting, on the ceiling   on the wall

K	CRI	lm	W	lm/W	Control	ta	kg	Order no.
Zone 2 / 22	2							
4,000	≥ 80	1,604	13	123	ON/OFF	-20 +50 °C	1.2	51FXC27A410A
4,000	≥ 80	2,537	20	127	ON/OFF	-20 +40 °C	1.2	51FXC27A420A
4,000	≥ 80	2,537	20	128	DALI 2	-20 +40 °C	1.2	51FXC2DA420A
Zone 2 / 22	2, emergency li	ghting variant wit	th single batte	ery supply, 3 h				
4,000	≥ 80	1,604	13	123	ON/OFF	-20 +50 °C	1.5	51FXC27A410A3G



Office lighting families	→ Page 88
Downlights	→ Page 116
Track spotlights	→ Page 128
Wall and ceiling luminaires	→ Page 130
Batten luminaires	→ Page 142





### Silica 21

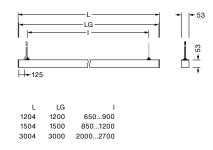
### The universal office solution: Maximum flexibility meets design and sustainability.

- · Maximum flexibility in application and suitable for all mounting situations due to modular design
- Ideal basis for a smart office thanks to option for flexibly enhancing the luminaire with intelligent sensor technology e.g. for room data acquisition using open interface
- · Ideal for refurbishing traditional T5 / T8 lighting systems
- · Sustainability through easily replaceable components
- · Individual project solutions are no problem thanks to the modular principle









#### Silica 21, office pendant luminaire, with darklight reflector, black















4,000 K
7,290     18,230 lm
CRI ≥ 80
Up 172 lm/W
Direct / indirect wide distribution, symmetric
Darklight reflector made of aluminum, black

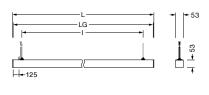
Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm²
Housing	Aluminum, traffic white (RAL 9016)
Mounting	suspended mounting

K	CRI	lm	w	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
Wide distri	ibution, with da	rklight reflector, l	olack						
4,000	≥ 80	7,290	43.8	166	DALI 2	≤ 19	1,204	3.0	51MX32DA47WB
4,000	≥ 80	9,110	54.7	167	DALI 2	≤ 19	1,504	3.5	51MX32DB49WB
4,000	≥ 80	18,230	105.8	172	DALI 2	≤ 19	3,004	5.5	51MX32DC4DWB

Accessories	PU	kg	Order no.
Pendant set, square canopy, white, length 1.2 m	1 pc.	0.3	59MX30DH20W
Pendant set, round canopy, white, length 1.2 m	1 pc.	0.3	59MX30DJ20W
Pendant set, square canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DH20S
Pendant set, round canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DJ20S
Mechanical continuous row connector, for pendant and surface-mounted luminaires	1 pc.	0.1	59MX700V40X
Through-wiring, length 1.2 m	1 pc.	0.2	59MX70DL10X
Through-wiring, length 1.5 m	1 pc.	0.2	59MX70DL20X
Through-wiring, length 3 m	1 pc.	0.4	59MX70DL30X
Controller, for luminaires with darklight reflector	1 pc.	0.3	59MX2AW000WA
PR3-S sensor module, for luminaires with darklight reflector	1 pc.	0.3	59MX2BW000WA







L LG I 1204 1200 650...900 1504 1500 850...1200 3004 3000 2000...2700

#### Silica 21, office pendant luminaire with translucent cover















Color temperature	4,000 K
Luminous flux	4,210     14,780 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	Up 164 lm/W
Beam angle	Direct / indirect, extremely wide distribution, symmetric
Cover	PMMA prismatic lens   opal-diffuse PMMA cover

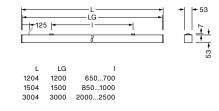
Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm²
Housing	Aluminum, traffic white (RAL 9016)
Mounting	suspended mounting

K	CRI	lm	W	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
extremely	wide distribution	on, with prismatic	diffuser	l l					
4,000	≥ 80	5,910	37	160	DALI 2	≤ 19	1,204	3.0	51MX33DA47WB
4,000	≥ 80	7,390	46.6	159	DALI 2	≤ 19	1,504	3.5	51MX33DB49WB
4,000	≥ 80	14,780	90.3	164	DALI 2	≤ 19	3,004	5.5	51MX33DC4DWB
extremely	wide distributio	on, with opal diffu	ser cover	,					
4,000	≥ 80	4,210	27	156	DALI 2	≤ 22	1,204	3.0	51MX30DA44WB
4,000	≥ 80	5,260	33.1	159	DALI 2	≤ 22	1,504	3.5	51MX30DB45WB
4,000	≥ 80	10,520	66.5	158	DALI 2	≤ 22	3,004	5.5	51MX30DC49WB

Accessories	PU	kg	Order no.
Pendant set, square canopy, white, length 1.2 m	1 pc.	0.3	59MX30DH20W
Pendant set, round canopy, white, length 1.2 m	1 pc.	0.3	59MX30DJ20W
Pendant set, square canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DH20S
Pendant set, round canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DJ20S
Mechanical continuous row connector, for pendant and surface-mounted luminaires	1 pc.	0.1	59MX700V40X
Through-wiring, length 1.2 m	1 pc.	0.2	59MX70DL10X
Through-wiring, length 1.5 m	1 pc.	0.2	59MX70DL20X
Through-wiring, length 3 m	1 pc.	0.4	59MX70DL30X
Controller, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX2AW100WA
PR3-S sensor module, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX2BW100WA







#### Silica 21, surface-mounted office luminaire, with darklight reflector, black















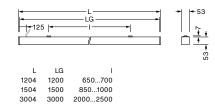
Color temperature	4,000 K
Luminous flux	4,320     10,800 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 169 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Darklight reflector made of aluminum, black

Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm <sup>2</sup>
Housing	Aluminum, traffic white (RAL 9016)
Mounting	Surface-mounted, on the ceiling

K	CRI	lm	W	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
Extremely wide distribution, with darklight reflector, black									
4,000	≥ 80	4,320	25.6	169	DALI 2	≤ 19	1,204	3.0	51MX22DA44WB
4,000	≥ 80	5,400	32.0	169	DALI 2	≤ 19	1,504	3.5	51MX22DB45WB
4,000	≥ 80	10,800	64.7	167	DALI 2	≤ 19	3,004	5.5	51MX22DC4AWB

Accessories	PU	kg	Order no.
Pendant set, square canopy, white, length 1.2 m	1 pc.	0.3	59MX30DH20W
Pendant set, round canopy, white, length 1.2 m	1 pc.	0.3	59MX30DJ20W
Pendant set, square canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DH20S
Pendant set, round canopy, silver, length 1.2 m	1 pc.	0.3	59MX30DJ20S
Mechanical continuous row connector, for pendant and surface-mounted luminaires	1 pc.	0.1	59MX700V40X
Through-wiring, length 1.2 m	1 pc.	0.2	59MX70DL10X
Through-wiring, length 1.5 m	1 pc.	0.2	59MX70DL20X
Through-wiring, length 3 m	1 pc.	0.4	59MX70DL30X
Controller, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX2AW100WA
PR3-S sensor module, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX2BW100WA





#### Silica 21, surface-mounted office luminaire, with translucent cover















Color temperature	4,000 K
Luminous flux	2,400     8,200 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 156 lm/W
Beam angle	Direct, extremely wide distribution, symmetric
Cover	PMMA prismatic lens   opal-diffuse PMMA cover

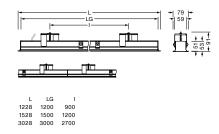
Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm <sup>2</sup>
Housing	Aluminum, traffic white (RAL 9016)
Mounting	Surface-mounted, on the ceiling

Κ	CRI	lm	W	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
extremely	wide distributio	on, with prismatio	diffuser	· ·	1				
4,000	≥ 80	3,280	21.0	156	DALI 2	≤ 19	1,204	3.0	51MX23DA44WB
4,000	≥ 80	4,100	26.2	156	DALI 2	≤ 19	1,504	3.5	51MX23DB45WB
4,000	≥ 80	8,200	54.6	150	DALI 2	≤ 19	3,004	5.5	51MX23DC4AWB
extremely	wide distributio	on, with opal diffu	ser cover						
4,000	≥ 80	2,400	16.1	149	DALI 2	≤ 22	1,204	3.0	51MX20DA42WB
4,000	≥ 80	3,000	20.2	149	DALI 2	≤ 22	1,504	3.5	51MX20DB42WB
4.000	≥ 80	6.000	42.6	141	DALI 2	≤ 22	3.004	5.5	51MX20DC45WB

PU	kg	Order no.
1 pc.	0.3	59MX30DH20W
1 pc.	0.3	59MX30DJ20W
1 pc.	0.3	59MX30DH20S
1 pc.	0.3	59MX30DJ20S
1 pc.	0.1	59MX700V40X
1 pc.	0.2	59MX70DL10X
1 pc.	0.2	59MX70DL20X
1 pc.	0.4	59MX70DL30X
1 pc.	0.3	59MX2AW100WA
1 pc.	0.3	59MX2BW100WA
	1 pc.	1 pc. 0.3 1 pc. 0.3 1 pc. 0.3 1 pc. 0.3 1 pc. 0.1 1 pc. 0.2 1 pc. 0.2 1 pc. 0.4 1 pc. 0.3







#### Silica 21, recessed office luminaire, with darklight reflector, black















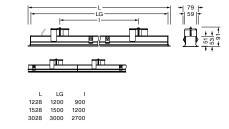
Color temperature	4,000 K
Luminous flux	4,320     10,800 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 169 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Darklight reflector made of aluminum, black

Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm²
Housing	Aluminum, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
Wide distri	ibution, with da	rklight reflector, l	olack						
4,000	≥ 80	4,320	25.6	169	DALI 2	≤ 19	1,228	3.2	51MX12DA44WB
4,000	≥ 80	5,400	32.0	169	DALI 2	≤ 19	1,528	3.8	51MX12DB45WB
4,000	≥ 80	10,800	64.7	167	DALI 2	≤ 19	3,028	6.0	51MX12DC4AWB

Accessories	PU	kg	Order no.
Through-wiring, length 1.2 m	1 pc.	0.2	59MX70DL10X
Through-wiring, length 1.5 m	1 pc.	0.2	59MX70DL20X
Through-wiring, length 3 m	1 pc.	0.4	59MX70DL30X
Controller, for luminaires with darklight reflector	1 pc.	0.3	59MX1AW000WA
PR3-S sensor module, for luminaires with darklight reflector	1 pc.	0.3	59MX1BW000WA





#### Silica 21, recessed office luminaire, with translucent cover















Color temperature	4,000 K
Luminous flux	2,400     8,200 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 156 lm/W
Beam angle	Direct, extremely wide distribution, symmetric
Cover	PMMA prismatic lens   opal-diffuse PMMA cover

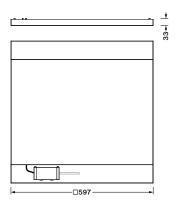
Control	DALI 2
Temperature range	0 +35 °C
Rated service life	70,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm²
Housing	Aluminum, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	w	lm/W	Control	UGR	<b>L</b> mm	kg	Order no.
extremely	wide distribution	on, with prismation	diffuser	'					
4,000	≥ 80	3,280	21.0	156	DALI 2	≤ 19	1,228	3.2	51MX13DA44WB
4,000	≥ 80	4,100	26.2	156	DALI 2	≤ 19	1,528	3.8	51MX13DB45WB
4,000	≥ 80	8,200	54.6	150	DALI 2	≤ 19	3,028	6.0	51MX13DC4AWB
extremely	wide distributio	on, with opal diffu	ser cover						
4,000	≥ 80	2,400	16.1	149	DALI 2	≤ 22	1,228	3.2	51MX10DA42WB
4,000	≥ 80	3,000	20.2	149	DALI 2	≤ 22	1,528	3.8	51MX10DB42WB
4.000	≥ 80	6.000	42.6	141	DALI 2	≤ 22	3.028	6.0	51MX10DC45WB

Accessories	PU	kg	Order no.
Through-wiring, length 1.2 m	1 pc.	0.2	59MX70DL10X
Through-wiring, length 1.5 m	1 pc.	0.2	59MX70DL20X
Through-wiring, length 3 m	1 pc.	0.4	59MX70DL30X
Controller, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX1AW100WA
PR3-S sensor module, for luminaires with opal or prismatic cover	1 pc.	0.3	59MX1BW100WA







#### Silica 21 square, recessed office luminaire, with darklight reflector

















Color temperature	3,000 K   4,000 K
Luminous flux	4,600 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 169 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Darklight reflector made of aluminum, white   black

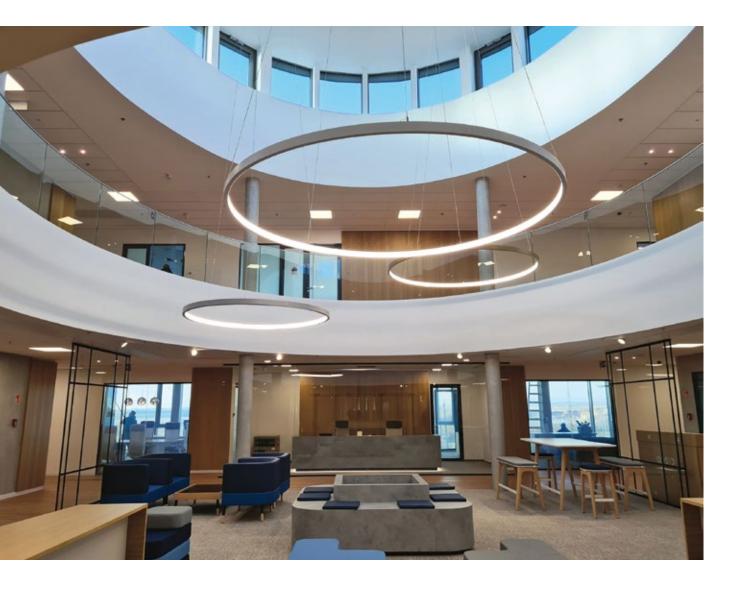
Control	DALI 2
Temperature range	0 +35 °C
Rated service life	50,000 h (L85/B50) at AT = 25 °C
Electrical connection	Terminal, 3+ 2-pin, max. 2.5 mm <sup>2</sup>
Housing	Aluminum, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	w	lm/W	Control	UGR	kg	Order no.
Wide distrib	oution, with dark	dight reflector, wh	nite					
3,000	≥ 80	4,600	26.7	172	DALI 2	≤ 19	4.5	51MX6MDS34W
4,000	≥ 80	4,600	24.9	185	DALI 2	≤ 19	4.5	51MX6MDS44W
Wide distril	oution, with dark	dight reflector, bla	ack					
3,000	≥ 80	4,600	29.1	158	DALI 2	≤ 19	4.5	51MX6KDS34W
4,000	≥ 80	4,600	27.2	169	DALI 2	≤ 19	4.5	51MX6KDS44W

## Silica 21 Ring

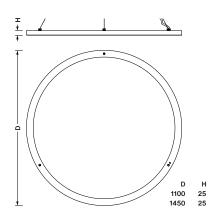
#### Prestigious and elegant.

- · Decorative, weightless pendant luminaire for use in foyers, canteens, offices and public buildings
- · Can be used universally and freely combined thanks to different sizes and beam characteristics









#### Silica 21 Ring M, ring luminaire, direct distribution











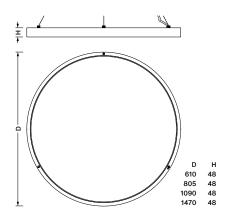
Color temperature	4,000 K
Luminous flux	8,423   11,353 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 91 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	PC, frosted

Control	DALI 2
Temperature range	0 +35 °C
Rated service life	50,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, round, black
Mounting	Suspended mounting, suspension height up to 4 m

K	CRI	lm	w	lm/W	Control	Ømm	kg	Order no.
Direct distribution								
4,000	≥ 80	8,423	94	90	DALI 2	1,100	4.1	5PJBD3D3104A
4,000	≥ 80	11,353	125	91	DALI 2	1,450	4.9	5PJBD4D3104A







#### Silica 21 Ring M, ring luminaire, direct / indirect distribution











Color temperature	4,000 K
Luminous flux	6,426   8,887 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 63.5 lm/W
Beam angle	Direct / indirect distribution, symmetric, ring inner side luminous
Cover	PC, frosted

Control	DALI 2
Temperature range	0 +35 °C
Rated service life	50,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, round, black
Mounting	Suspended mounting, suspension height up to 4 m

K	CRI	lm	w	lm/W	Control	Ømm	kg	Order no.
Direct / indi	rect distribution	n		'				
4,000	≥ 80	6,426	105	61.2	DALI 2	1,090	4.1	5PJBI3D3104A
4,000	≥ 80	8,887	140	63.5	DALI 2	1,470	5.0	5PJBI4D3104A



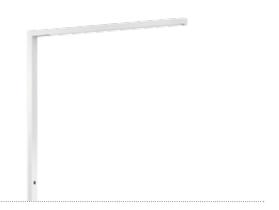
### Silica 11 Floor

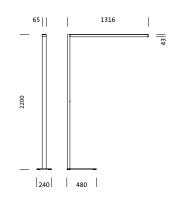
#### Purism for single, double and quadruple workstations.

- · Uniform, standard-compliant illumination in accordance with DIN EN 12464-1
- · High luminous flux with low glare
- · Very high efficiency thanks to extremely precise light distribution
- · Suitable for height-adjustable desks and four-person workstations
- · Direct and indirect components can be switched / dimmed separately
- Integrated daylight and presence sensors
- · Various baseplates and table adaptations on request









#### Silica 11 Floor













Color temperature	4,000 K	Temperature range	0 +35 °C		
Luminous flux	12,460 lm	Rated service life	50,000 h (L85/B50) at AT = 25 °C		
Color rendering index	CRI ≥ 80	Electrical connection	Pre-assembled connection cable,		
_uminous efficacy 157 lm/W			cable length: 3.0 m		
Beam angle	Direct / indirect distribution, symmetric	Housing	Rectangular luminaire head made of aluminum, square supporting column		
Cover	PMMA, cover plate		made of aluminum, base made of steel   traffic white (RAL 9016)   deep black (RAL 9005)		
Control	DALI   with presence sensor, daylight-dependent control				
		Mounting	Unmounted		

K	CRI	lm	W	lm/W	Control	kg	Order no.
Color white, I	RAL 9016						
4,000	≥ 80	12,460	79	157	DALI	18.6	5MX51BS3WZK00002XX
Color black, I	RAL 9005						
4,000	≥ 80	12,460	79	157	DALI	18.6	5MX51BS3SZK00022XX

### Silica 21 Floor R

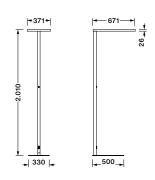
#### As flexible as modern work concepts.

- Ideal basis for a smart office thanks to option for flexibly enhancing the luminaire with intelligent sensor technology e.g. for room data acquisition using open interface
- · Very uniform and standard-compliant illumination of two workstations according to DIN EN 12464-1
- · Pleasant room atmosphere created due to very wide ceiling illumination
- · Swarm function provides pleasant ambient light if required
- $\cdot$  Easy maintenance and expansion due to gear tray principle and access to electronics compartment









#### Silica 21 Floor R















Color temperature	4,000 K	Temperature range	0 +35 °C		
Luminous flux	15,000 lm	Rated service life	50,000 h (L85/B50) at AT = 25 °C		
Color rendering index	CRI ≥ 80	Electrical connection	Pre-assembled connection cable   cable length: 2.5 m  Luminaire head made of aluminum, supporting column made of aluminum, base made of steel   traffic white (RAL 9016)] white aluminum (RAL 9006), jet black (RAL 9005)		
Luminous efficacy	141 lm/W				
Beam angle	Direct / indirect distribution   symmetric	Housing			
Cover	PMMA, prismatic diffuser				
Control	DALI 2   with presence sensor, daylight-dependent control				
	Room data recording and swarm function on request	Mounting	Unmounted		

K	CRI	lm	W	lm/W	Control	kg	Order no.
Color white,	RAL 9016		· ·			· ·	
4,000	≥ 80	15,000	106.4	141	DALI 2	15.0	51MX53SG4DW
Color white a	luminum, RAL 900	6					
4,000	≥ 80	15,000	106.4	141	DALI 2	15.1	51MX53SG4DS
Color jet blad	k, RAL 9005						
4,000	≥ 80	15,000	106.4	141	DALI 2	15.1	51MX53SG4DB

## Silica 31 Floor

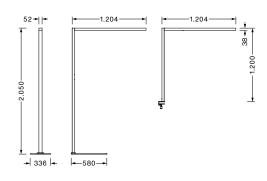
#### Variable elegance.

- · Very good glare reduction
- High variance with single and double floor-standing luminaires and desktop luminaires
- · Convenient operation thanks to high-quality touch panel
- · Outstanding price/performance ratio
- · High efficiency of 141 lm/W









#### Silica 31 Floor















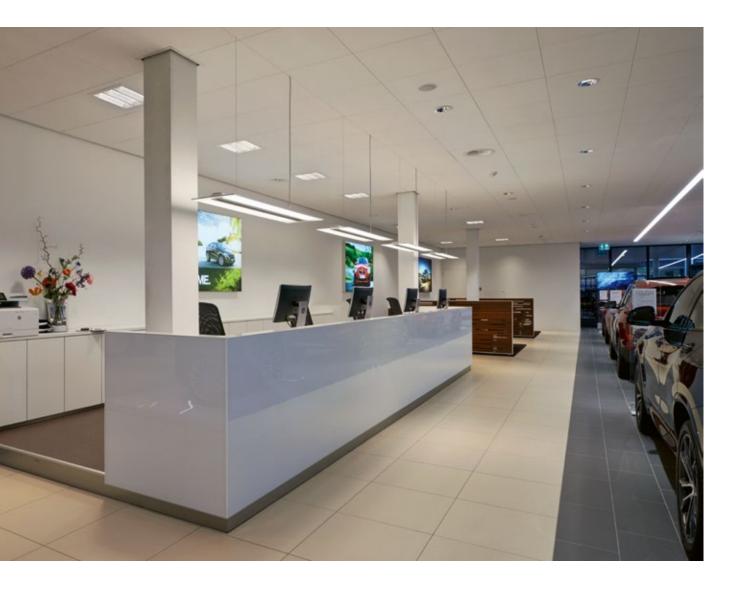
Color temperature	4,000 K	Temperature range	−20 +40 °C		
Luminous flux	10,600 lm	Rated service life	50,000 h (L85/B10) at AT = 25 °C		
Color rendering index	CRI ≥ 80	Electrical connection	Connection cable enclosed   cable length: 2.5 m  Luminaire head made of aluminum, supporting column made of aluminum, base made of steel		
Luminous efficacy	141 lm/W				
Beam angle	Direct / indirect distribution   symmetric	Housing			
Cover	PC, raster optics				
Control	DALI 2   with presence sensor, daylight-dependent control		traffic white (RAL 9016)  white aluminum (RAL 9006), jet black (RAL 9005)		
		Mounting	Unmounted		

K	CRI	lm	w	lm/W	Control	kg	Order no.
Color white,	RAL 9016, with bas	е					
4,000	≥ 80	10,600	75	141	DALI 2	12.1	51MY52FA4CW
Color white,	RAL 9016, with tabl	e mounting					
4,000	≥ 80	10,600	75	141	DALI 2	4.1	51MY52GA4CW
Color white a	luminum, RAL 900	6, with base					
4,000	≥ 80	10,600	75	141	DALI 2	12.1	51MY52FA4CS
Color white a	luminum, RAL 900	6, with table mountin	g				
4,000	≥ 80	10,600	75	141	DALI 2	4.1	51MY52GA4CS
Color deep b	lack, RAL 9005, wi	th base					
4,000	≥ 80	10,600	75	141	DALI 2	12.1	51MY52FA4CB
Color deep b	lack, RAL 9005, wi	th table mounting					
4,000	≥ 80	10,600	75	141	DALI 2	4.1	51MY52GA4CB

# Vega 11

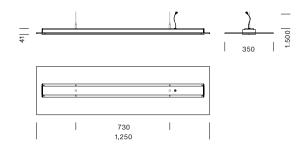
#### It's simple: excellent light, excellent design.

- Purist appearance with an almost transparent design: height of prismatic plate only 6 mm, height of luminaire housing only 43 mm
- Outstanding lighting technology for very uniform light distribution with direct/indirect component for pleasant room atmosphere, BAP65 (L<= 1500 cd/m²)</li>
- High quality appearance due to special vaporization of the prismatic plate at the edges, aluminum housing and decorative specular strip









#### Vega 11, office luminaire with prismatic PMMA reflector













Color temperature	3,000 K   4,000 K
Luminous flux	7,300     8,130 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	Up 131 lm/W
Beam angle	Direct / indirect wide distribution, symmetric
Cover	Prismatic reflector made of PMMA, clear
Control	DALI

Temperature range	0 +35 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3 + 2-pin, max. 2.5 mm <sup>2</sup> , incl. connection cable, length 1.5 m
Housing	Aluminum profile, anodized, white aluminum (RAL 9006), lower housing made of aluminum profile, anodized, white aluminum (RAL 9006) and of PC, gray
Mounting	suspended mounting

K	Ra	LM	w	lm/W	Control	kg	Order no.
3,000	≥ 80	7,300	62	118	DALI	6.6	5MN238DLE003
4,000	≥ 80	8,130	62	131	DALI	6.6	5MN238DLE

Accessories	PU	kg	Order no.
Single wire suspension, for luminaire, with canopy, white, round	1 pc.	0.1	5MN91202
Single wire suspension, for luminaire, with canopy, white, square	1 pc.	0.1	5MN91204
Single wire suspension, for luminaire	1 pc.	0.1	5MN91302

## Apollon 21/31/41

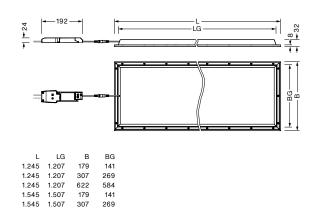
#### The intelligent luminaire range for office and general lighting.

- Highly efficient for low energy consumption, with refurbishment projects (T5/T8), feasible energy savings of up to 55 %
- Durability in application due to high protection ratings of up to IP54, also suitable for more adverse environments and clean rooms
- Available with Tunable White function as the ideal basis for HCL<sup>live</sup> applications for greater well-being and motivation









### Apollon 21 Linear: office luminaire with microprismatic cover

















#### **Technical data**

Color temperature	4,000 K
Luminous flux	4,190     7,600 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 170 lm/W
Beam angle	Direct, wide distribution, symmetric, 80°
Cover	PMMA   microprismatic
Control	ON / OFF   ON / OFF Multilumen   DALI 2

Temperature range	−20 +45 °C
Rated service life	50,000 h (L90/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm², Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum housing, coated, pure white, top of housing, made of sheet steel, galvanized
Mounting	Lay-in mounting   recessed, in the ceiling

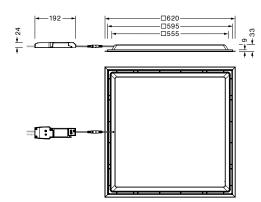
K	CRI	lm	w	lm/W	Control	UGR	Type of protection	<b>L</b> mm	<b>B</b> mm	kg	Order no.
4,000	≥ 80	4,190	26	165	DALI 2	≤ 19	IP20/IP50	1,195	295	2.7	51MQ18WD2414
4,000	≥ 80	4,190	26	165	ON / OFF Multilumen	≤ 19	IP20/IP50	1,195	295	2.7	51MQ18WM2414
3,000   4,000	≥ 80	7,400	44	167	DALI 2	≤ 19	IP20/IP50	1,195	595	4.5	51MQ1AWD2M14
4,000	≥ 80	7,600	45	170	ON / OFF Multilumen	≤ 19	IP20/IP50	1,195	595	4.5	51MQ1AWM2414

Accessories	PU	kg	Order no.
Surface-mount housing, white, for luminaire $L \times W = 1,195 \times 295 \text{mm}$	1 pc.	1.9	59MQ28004024
Surface-mount housing, white, for luminaire $L \times W = 1,195 \times 595 \text{ mm}$	1 pc.	2.4	59MQ2A002024
Rapid-mount bracket, for ceiling cut-outs	4 pc.	0.7	59MQ11008004
Rotary dimmer, local control, for installation in switch box	1 pc.	0.1	5LZ902050TW

Emergency lighting kit on request







# Apollon 21 Square: office luminaire with microprismatic cover



















#### **Technical data**

Color temperature	3,000 K     6,500 K
Luminous flux	4,100     4,200 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 180 lm/W
Beam angle	Direct, wide distribution, symmetric, 90°
Cover	PMMA   microprismatic
Control	ON / OFF   DALI 2   DALI 2 CLO

Temperature range	−20 +45 °C
Rated service life	50,000 h (L90/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm², Terminal, 5-pin, max. 2.5 mm²
Housing	Housing made of aluminum, coated, traffic white (RAL 9016), upper housing side made of sheet steel, galvanized
Mounting	Lay-in mounting   recessed, in the ceiling

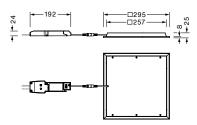
K	CRI	lm	w	lm/W	Control	UGR	Type of protection	kg	Order no.
4,000	90	4,100	25	166	DALI 2	≤ 19	IP20 / IP50	1.8	51MQ12WD2114
3,000   4,000	80	4,200	24	174	ON/OFF	≤ 19	IP20 / IP50	1.8	51MQ11W72M14
3,000   4,000	80	4,200	26	162	DALI 2	≤ 19	IP20 / IP50	1.8	51MQ12WD2M14
4,000	80	4,200	23	180	ON/OFF	≤ 19	IP20/IP50	1.8	51MQ12W72414
4,000	80	4,200	25	170	DALI 2	≤ 19	IP20/IP50	1.8	51MQ12WD2414
4,000	80	4,200	25	170	DALI 2 CLO	≤ 19	IP20/IP54	1.8	51MQ12WC2454
6,500	80	4,150	25	162	DALI 2	≤ 19	IP20 / IP50	1.8	51MQ12WD2614

Accessories	PU	kg	Order no.
Surface-mounted housing, white, for luminaire M600	1 pc.	1.4	59MQ22005024
Rapid-mount bracket, for ceiling cut-outs	4 pc.	0.7	59MQ11008004
Rotary dimmer, local control, for installation in switch box	1 pc.	0.1	5LZ902050TW

Emergency lighting kit on request







# Apollon 21 Square, $295 \times 295$ mm, office luminaire with microprismatic cover















59MQ23004024



#### **Technical data**

4,000 K
1,800 lm
CRI ≥ 80
up to 130 lm/W
Direct, wide distribution, symmetric, 90°
PMMA   microprismatic
DALI 2

Surface-mount housing, white, for luminaire L  $\times$ W = 295  $\times$  295 mm

Temperature range	−20 +45 °C
Rated service life	50,000 h (L90/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Housing made of sheet steel, coated, upper housing side made of sheet steel, galvanized
Mounting	Lay-in mounting   recessed, in the ceiling

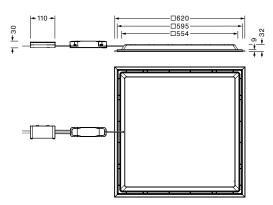
0.5

1 pc.

K	CRI	lm	w	lm/W	Control	UGR	Type of protection	kg	Order no.
Dimensions: 2	95×295 mm								
4,000	≥ 80	1,800	14	130	DALI 2	≤ 19	IP20 / IP50	8.0	51MQ13WD2414
Accessories							PU	kg	Order no.







# Apollon 31 Square: office luminaire with microprismatic cover



















#### **Technical data**

3,000 K     5,000 K
3,600     4,000 lm
CRI ≥ 80
up to 145 lm/W
Direct, wide distribution, symmetric, 90°   120°
PMMA   microprismatic
ON/OFF   DALI 2

Temperature range	−20 +40 °C
Rated service life	50,000 h (L85/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm², Terminal, 5-pin, max. 2.5 mm²
Housing	Housing made of aluminum, coated, traffic white (RAL 9016), upper housing side made of sheet steel, galvanized
Mounting	Lay-in mounting   recessed, in the ceiling

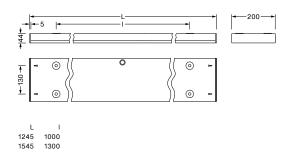
K	CRI	lm	W	lm/W	Control	UGR	kg	Order no.
Module: M600, wid	e distribution, 9	0°						
3,000	≥ 80	3,800	28	138	ON/OFF	≤ 19	1.8	51MP12W72342
3,000	≥ 80	3,600	28	130	DALI 2	≤ 19	1.8	51MP12WD2342
3,000   4,000	≥ 80	4,000	28	142	ON/OFF	≤ 19	1.8	51MP12W72M42
3,000   4,000	≥ 80	4,000	28	142	DALI 2	≤ 19	1.8	51MP12WD2M42
4,000	≥ 80	4,000	28	145	ON/OFF	≤ 19	1.8	51MP12W72442
4,000	≥ 80	3,800	28	138	DALI 2	≤ 19	1.8	51MP12WD2442
4,000   5000	≥ 80	4,000	28	145	ON/OFF	≤ 19	1.8	51MP12W72N42
4,000   5000	≥ 80	4,000	28	145	DALI 2	≤ 19	1.8	51MP12WD2N42
Module: M600, wide	e distribution, 1	20°						
4 000	> 80	4 000	28	145	ON / OFF	< 22	1.8	51MP12N72442

Accessories	PU	kg	Order no.
Surface-mounted housing, white, for luminaire M600	1 pc.	1.3	59MQ22004024
Rapid-mount bracket, for ceiling cut-outs	4 pc.	0.7	59MQ11008004
SITECO Connect 31 Office, controller, local control	1 pc.	0.1	5LZ935100A
SITECO Connect 31 Office, cable anchoring covers for controllers, local control	1 pc.	0.1	5LZ935400A
SITECO Connect 31 Office, sensor, local control	1 pc.	0.1	5LZ935202A
Rotary dimmer, local control, for installation in switch box	1 pc.	0.1	5LZ902050TW

Emergency lighting kit on request







# Apollon 31 Surface, office luminaire with microprismatic cover













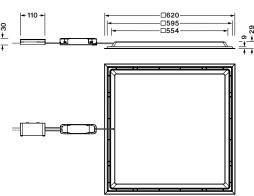
Color temperature	3,000 K   4,000 K
Luminous flux	2,900     7,700 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 139 lm/W
Beam angle	Direct, wide distribution, symmetric, 90°
Cover	PMMA   microprismatic

Control	ON / OFF Multilumen   DALI 2
Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin   Terminal, 5-pin
Housing	Housing, sheet steel, coil-coated, traffic white (RAL 9016)
Mounting	Surface-mounted, on the ceiling

K	CRI	lm	w	lm/W	Control	<b>L</b> mm	kg	Order no.
3,000	≥ 80	2,900   3,600   4,100   4,700	23   27   33   38	132	ON / OFF Multilumen	1,245	3.0	51MP25WM2341W
3,000	≥ 80	3,600	28	129	DALI 2	1,245	3.0	51MP25WD2341W
4,000	≥ 80	3,100   3,800   4,400   5,000	23   27   33   38	139	ON / OFF Multilumen	1,245	3.0	51MP25WM2441W
4,000	≥ 80	3,800	28	136	DALI 2	1,245	3.0	51MP25WD2441W
3,000	≥ 80	4,400   5,500   6,500   7,400	33   42   50   58	133	ON / OFF Multilumen	1,545	5.5	51MP26WM2341W
3,000	≥ 80	4,400	33	133	DALI 2	1,545	5.5	51MP26WD2341W
4,000	≥ 80	4,600   5,800   6,800   7,700	33   42   50   58	139	ON / OFF Multilumen	1,545	5.5	51MP26WM2441W
4,000	≥ 80	4,600	33	139	DALI 2	1,545	5.5	51MP26WD2441W







# Apollon 41, office luminaire with prismatic diffuser















### Technical data

Luminous flux $3,500 \text{ Im}$     $3,700 \text{ Im}$ Color rendering index     CRI ≥ 80       Luminous efficacy     up to $130 \text{ Im/W}$ Beam angle     Direct, wide distribution, symmetric, 90
Luminous efficacy up to 130 lm/W
Ream angle Direct wide distribution symmetric 90
Direct, wide distribution, symmetric, and
Cover Prism diffuser made of PS
Control ON / OFF   DALI 2

Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 3-pin, Terminal, 5-pin
Housing	Housing made of aluminum, traffic white (RAL 9016), upper housing side made of sheet steel
Mounting	Lay-in mounting   recessed, in the ceiling

K	CRI	lm	w	lm/W	Control	kg	Order no.
Module: M600				·			
3,000	≥ 80	3,500	29	123	ON/OFF	2.1	51MH11W72343
3,000   4,000	≥ 80	3,700	29	130	ON / OFF	2.1	51MH11W72M43
4,000	≥ 80	3,700	29	130	ON/OFF	2.1	51MH11W72443
4,000	≥ 80	3,500	29	123	DALI 2	2.1	51MH11WD2443
4,000   6,500	≥ 80	3,700	29	130	ON/OFF	2.1	51MH11W72N43
4,000   6,500	≥ 80	3,500	29	123	DALI 2	2.1	51MH11WD2N43

Accessories	PU	kg	Order no.
Rapid-mount bracket, for ceiling cut-outs	4 pc.	0.7	59MQ11008004
Surface-mounted housing (unmounted frame), white, for M600 luminaire	1 pc.		59MQ22004024

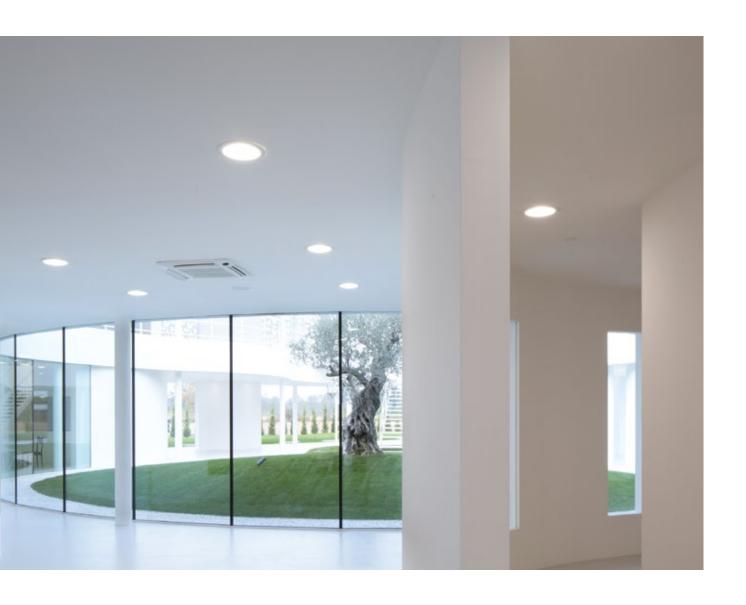
Emergency lighting kit on request



# Lunis 21

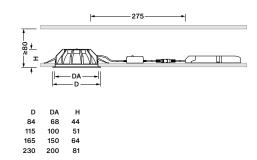
# The large downlight family for all occasions.

- Ideal for replacing conventional downlights with ceiling cutouts between Ø 68 mm and Ø 265 mm
- Suitable for VDU workstation lighting due to UGR  $\leq$  19
- · Three different optics for all important applications
- · Integrates perfectly into the interior design due to concise appearance
- · Simple ceiling integration thanks to flat design
- · Quick and easy mounting









### Lunis 21, with high-gloss aluminum reflector





















Color temperature	3,000 K     6,500 K
Luminous flux	860     2,510 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 185 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Reflector, with internal cover

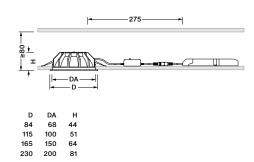
Control	ON / OFF   ON / OFF Multilumen   DALI 2 Multilumen   DALI DT8
Temperature range	-20 +35 °C
Rated service life	50,000 h (L80/B20) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Terminal, 5-pin, max. 2.5 mm²
Housing	Round, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
Lunis 21 S, ceiling cutout: D	iameter 68	3 mm		·			
3,000   4,000   6,500	≥ 80	860	6.0	145	ON/OFF	0.5	51DB15MA91C
3,000   4,000   6,500	≥ 80	1,000	7.2	140	DALI 2 Multilumen	0.5	51DB15EA91C
3,000     6,500	≥ 80	1,000	7.2	140	DALI DT 8	0.5	51DB15TA91C
Lunis 21 M, ceiling cutout: E	Diameter 10	00 mm					
3,000   4,000   6,500	≥ 80	1,860	10.5	176	ON / OFF Multilumen	0.8	51DB15MC91C
3,000   4,000   6,500	≥ 80	1,790	11.0	160	DALI 2 Multilumen	0.8	51DB15EC91C
3,000     6,500	≥ 80	1,790	11.0	160	DALI DT 8	0.8	51DB15TC91C
Lunis 21 L, ceiling cutout: D	iameter 15	0 mm					
3,000   4,000   6,500	≥ 80	2,100	12.0	179	ON / OFF Multilumen	1.0	51DB15MD91C
3,000   4,000   6,500	≥ 80	2,100	12.9	160	DALI 2 Multilumen	1.0	51DB15ED91C
3,000     6,500	≥ 80	2,100	12.9	163	DALI DT 8	1.0	51DB15TD91C
Lunis 21 XL, ceiling cutout:	Diameter 2	200 mm					
3,000   4,000   6,500	≥ 80	2,510	13.6	185	ON / OFF Multilumen	1.4	51DB15MF91C
3,000   4,000   6,500	≥ 80	2,460	14.7	168	DALI 2 Multilumen	1.4	51DB15EF91C
3,000     6,500	≥ 80	2,460	14.7	168	DALI DT 8	1.4	51DB15TF91C

Accessories	PU	kg	Order no.
Lunis S, reducer ring Ø 68 / 100 mm, white	5 pc.	0.2	58DB100A
Lunis M, reducer ring Ø 100 / 150 mm, white	5 pc.	0.2	58DB100C
Lunis L, reducer ring Ø 150 / 200 mm, white	5 pc.	0.2	58DB100D
Lunis XL, reducer ring Ø 200 / 265 mm, white	5 pc.	0.2	58DB100F







# Lunis 21, with opal cover





















Color temperature	3,000 K     6,500 K
Luminous flux	730     2,160 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 158 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	Reflector, with opal cover

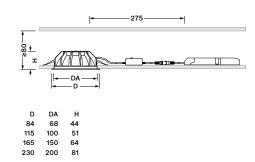
Control	ON / OFF   ON / OFF Multilumen   DALI 2 Multilumen   DALI DT8
Temperature range	-20 +35 °C
Rated service life	50,000 h (L80/B20) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Terminal, 5-pin, max. 2.5 mm²
Housing	Round, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
Lunis 21 S, ceiling cutout:	Diameter 68	3 mm					
3,000   4,000   6,500	≥ 80	730	6.0	124	ON/OFF	0.5	51DB16MA91C
3,000   4,000   6,500	≥ 80	780	7.2	109	DALI 2 Multilumen	0.5	51DB16EA91C
3,000     6,500	≥ 80	780	7.2	109	DALI DT 8	0.5	51DB16TA91C
Lunis 21 M, ceiling cutout	: Diameter 10	00 mm					
3,000   4,000   6,500	≥ 80	1,450	10.5	142	ON / OFF Multilumen	0.8	51DB16MC91C
3,000   4,000   6,500	≥ 80	1,460	11.0	130	DALI 2 Multilumen	0.8	51DB16EC91C
3,000     6,500	≥ 80	1,460	11.0	130	DALI DT 8	0.8	51DB16TC91C
Lunis 21 L, ceiling cutout:	Diameter 15	0 mm					
3,000   4,000   6,500	≥ 80	1,910	12.0	145	ON / OFF Multilumen	1.0	51DB16MD91C
3,000   4,000   6,500	≥ 80	1,870	12.9	145	DALI 2 Multilumen	1.0	51DB16ED91C
3,000     6,500	≥ 80	1,870	1.9	145	DALI DT 8	1.0	51DB16TD91C
Lunis 21 XL, ceiling cutou	t: Diameter 2	200 mm					
3,000   4,000   6,500	≥ 80	2,160	13.6	158	ON / OFF Multilumen	1.4	51DB16MF91C
3,000   4,000   6,500	≥ 80	2,160	14.8	146	DALI 2 Multilumen	1.4	51DB16EF91C
3.000     6.500	> 80	2 160	14.8	146	DALLDT 8	14	51DB16TF91C

Accessories	PU	kg	Order no.
Lunis S, reducer ring Ø 68 / 100 mm, white	5 pc.	0.2	58DB100A
Lunis M, reducer ring Ø 100 / 150 mm, white	5 pc.	0.2	58DB100C
Lunis L, reducer ring Ø 150 / 200 mm, white	5 pc.	0.2	58DB100D
Lunis XL, reducer ring Ø 200 / 265 mm, white	5 pc.	0.2	58DB100F







### Lunis 21, with white reflector























Color temperature	3,000 K     6,500 K
Luminous flux	850     2,440 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 178 lm/W
Beam angle	Direct, wide distribution, symmetric
Cover	White reflector with internal panel

Control	ON / OFF   ON / OFF Multilumen   DALI 2 Multilumen   DALI DT8
Temperature range	-20 +35 °C
Rated service life	50,000 h (L80/B20) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Terminal, 5-pin, max. 2.5 mm²
Housing	Round, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
Lunis 21 S, ceiling cutout:	Diameter 68	3 mm					
3,000   4,000   6,500	≥ 80	850	6.0	145	ON/OFF	0.5	51DB18MA91C
3,000   4,000   6,500	≥ 80	960	7.2	135	DALI 2 Multilumen	0.5	51DB18EA91C
3,000     6,500	≥ 80	960	7.2	135	DALI DT 8	0.5	51DB18TA91C
Lunis 21 M, ceiling cutout	: Diameter 10	00 mm					
3,000   4,000   6,500	≥ 80	1,850	10.5	176	ON / OFF Multilumen	0.8	51DB18MC91C
3,000   4,000   6,500	≥ 80	1,770	11.0	158	DALI 2 Multilumen	0.8	51DB18EC91C
3,000     6,500	≥ 80	1,770	11.0	158	DALI DT 8	0.8	51DB18TC91C
Lunis 21 L, ceiling cutout:	Diameter 15	0 mm					
3,000   4,000   6,500	≥ 80	2,130	12.0	175	ON / OFF Multilumen	1.0	51DB18MD91C
3,000   4,000   6,500	≥ 80	2,090	12.9	155	DALI 2 Multilumen	1.0	51DB18ED91C
3,000     6,500	≥ 80	2,090	12.9	162	DALI DT 8	1.0	51DB18TD91C
Lunis 21 XL, ceiling cutou	t: Diameter 2	200 mm				-	
3,000   4,000   6,500	≥ 80	2,400	13.5	178	ON / OFF Multilumen	1.4	51DB18MF91C
3,000   4,000   6,500	≥ 80	2,440	14.7	167	DALI 2 Multilumen	1.4	51DB18EF91C
3,000     6,500	≥ 80	2,440	14.7	168	DALI DT 8	1.4	51DB18TF91C

Accessories	PU	kg	Order no.
Lunis S, reducer ring Ø 68 / 100 mm, white	5 pc.	0.2	58DB100A
Lunis M, reducer ring Ø 100 / 150 mm, white	5 pc.	0.2	58DB100C
Lunis L, reducer ring Ø 150 / 200 mm, white	5 pc.	0.2	58DB100D
Lunis XL, reducer ring Ø 200 / 265 mm, white	5 pc.	0.2	58DB100F

# Lunis 31

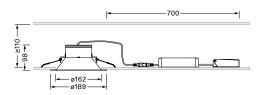
# The practical downlight for general lighting.

- Very efficient and elegant downlight with powder-coated white reflector
- Models with UGR ≤ 19 suitable for VDU workstations
- · Aluminum housing for optimal heat dissipation and long service life
- · Quick and easy mounting









### Lunis 31 mini, wide distribution













Color temperature	3,000 K     4,000 K
Luminous flux	1,000     1,040 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 125 lm/W
Beam angle	Direct, wide distribution, symmetric
Control	ON/OFF   DALI 2

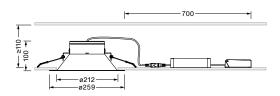
Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 1.5 mm <sup>2</sup>
Housing	Round, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling, DA 162 mm

K	CRI	lm	W	lm/W	Control	kg	Order no.
Wide distribution, UC	GR ≤ 19					-	
3,000	≥ 80	1,000	8.3	120	ON/OFF	0.3	51DN157E31
3,000	≥ 80	1,000	8.3	120	DALI 2	0.3	51DN15DE31
4,000	≥ 80	1,040	8.3	125	ON/OFF	0.3	51DN157E41
4,000	≥ 80	1,040	8.3	125	DALI 2	0.3	51DN15DE41
Wide distribution, UC	GR ≤ 22						'
3,000	≥ 80	1,000	8.3	120	ON/OFF	0.3	51DN167E31
3,000	≥ 80	1,000	8.3	120	DALI 2	0.3	51DN16DE31
4,000	≥ 80	1,040	8.3	125	ON/OFF	0.3	51DN167E41
4,000	≥ 80	1,040	8.3	125	DALI 2	0.3	51DN16DE41

Accessories	PU	kg	Order no.
Adapter, traffic white (RAL 9016), Ø = 200 mm	5 pc.	0.2	58DN1003







# Lunis 31 midi, wide distribution

Adapter, traffic white (RAL 9016), Ø = 275 mm













#### **Technical data**

Color temperature	3,000 K     4,000 K
Luminous flux	2,050     2,150 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 125 lm/W
Beam angle	Direct, wide distribution, symmetric
Control	ON/OFF DALI2

Temperature range	−20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 1.5 mm²
Housing	Round, traffic white (RAL 9016)
Mounting	Recessed, in the ceiling, DA 212 mm

5 pc.

0.4

58DN1004

К	CRI	lm	w	lm/W	Control		kg	Order no.
Wide distribution, UG	GR ≤ 19			'				
3,000	≥ 80	2,050	17	120	ON/OFF		0.3	51DN157G32
3,000	≥ 80	2,050	17	120	DALI 2		0.3	51DN15DG32
4,000	≥ 80	2,150	17	125	ON / OFF		0.3	51DN157G42
4,000	≥ 80	2,150	17	125	DALI 2		0.3	51DN15DG42
Wide distribution, UG	GR ≤ 22				,			
3,000	≥ 80	2,050	17	120	ON/OFF		0.3	51DN167G32
3,000	≥ 80	2,050	17	120	DALI 2		0.3	51DN16DG32
4,000	≥ 80	2,150	17	125	ON/OFF		0.3	51DN167G42
4,000	≥ 80	2,150	17	125	DALI 2		0.3	51DN16DG42
Accessories						PU	kg	Order no.



# Lunis 41

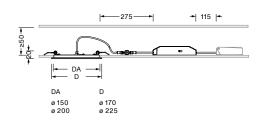
### A round solution for all cases.

- · For simple accent lighting in public buildings and the retail sector
- · Compact, functional design
- · Uniform light with good color rendering and switchable color temperature
- Due to its compact dimensions and the standard installation diameter, ideal in many cases for renovation purposes and as a replacement for conventional halogen lamp downlights









# Lunis 41 Flat, downlight













Color temperature	3,000 K     5,700 K
Luminous flux	1,250     2,160 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 98 lm/W
Beam angle	Direct distribution
Control	ON/OFF

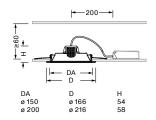
Temperature range	-20 +40 °C
Rated service life	30,000 h (L70/B50) at AT = 25 °C
Electrical connection	Connection cable $2 \times 0.75  \text{mm}^2$ , length 115 mm
Housing	Aluminum, round, traffic white (RAL 9016), diameter 170 mm   225 mm
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
DA 150 mm							
3,000   4,000	≥ 80	1,250	15	83	ON/OFF	0.3	51DR107DGBA
4,000   5,700	≥ 80	1,360	15	91	ON/OFF	0.3	51DR107DHBA
DA 200 mm							
3,000   4,000	≥ 80	2,050	22	93	ON/OFF	0.5	51DR107FGCA
4,000   5,700	≥ 80	2,160	22	98	ON/OFF	0.5	51DR107FHCA

Accessories	PU	kg	Order no.
Connection box, IP20	1 pc.	0.1	58DV003







# Lunis 41 Eco, downlight











Color temperature	3,000 K     4,000 K
Luminous flux	1,400     2,300 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 105 lm/W
Beam angle	Direct distribution
Control	ON/OFF

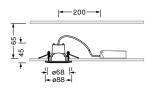
Temperature range	-20 +40 °C
Rated service life	30,000 h (L70/B50) at AT = 25 °C
Electrical connection	Connection cable $2 \times 0.75  \text{mm}^2$ , length 200 mm
Housing	Aluminum, round, traffic white (RAL 9016), diameter 166 mm   216 mm
Mounting	Recessed, in the ceiling

K	CRI	lm	W	lm/W	Control	kg	Order no.
DA 150 mm		l l				· ·	
3,000	≥ 80	1,400	14	100	ON/OFF	0.1	51DS107D33A
4,000	≥ 80	1,460	14	104	ON/OFF	0.1	51DS107D43A
DA 200 mm							
3,000	≥ 80	2,200	22	100	ON/OFF	0.3	51DS107F34A
4,000	≥ 80	2,300	22	105	ON/OFF	0.3	51DS107F44A

Accessories	PU	kg	Order no.
Connection box, IP20	1 pc.	0.1	58DV003







# Lunis 41 Spot, downlight











Color temperature	3,000 K     4,000 K
Luminous flux	500     720 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 111 lm/W
Beam angle	Direct distribution, 25° tiltable
Control	ON/OFF

Temperature range	-20 +40 °C
Rated service life	30,000 h (L70/B50) at AT = 25 °C
Electrical connection	Connection cable $2 \times 0.75  \text{mm}^2$ , length 200 mm
Housing	Aluminum, coated, traffic white (RAL 9016), diameter 88 mm
Mounting	Recessed, in the ceiling

K	CRI	lm	w	lm/W	Control	kg	Order no.
DA 68 mm							
3,000	≥ 80	500	5	100	ON/OFF	0.1	51DT137A31A
3,000	≥ 80	650	6.5	100	ON/OFF	0.1	51DT137A32A
4,000	≥ 80	550	5	110	ON/OFF	0.1	51DT137A41A
4,000	≥ 80	720	6.5	111	ON/OFF	0.1	51DT137A42A

Accessories	PU	kg	Order no.	
Connection box, IP20	1 pc.	0.1	58DV003	

# Spot 31

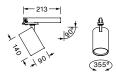
# Our practical spotlight as a perfect addition with high efficiency and quality.

- · Compact size in three housing colors
- Extremely efficient 3-phase track spotlight with 129 lm/W in a timeless design
- · Multilumen function for different luminous flux packages can be preset to individual requirements
- Reflector can be replaced without tools if required and can therefore be adapted to changing requirements









# Spot 31, track spotlight, wide distribution, 40°













Color temperature	4,000 K	Rated service life	50,000 h (L80/B50) at AT = 25 °C		
Luminous flux	5,040 lm	Electrical connection	Three-phase adapter		
Color rendering index	CRI ≥ 90	Housing	Housing made of aluminum, round,		
Luminous efficacy     up to 129 lm/W       Beam angle     Direct distribution, 40°, symmetric		_	Ø 90 mm, traffic white (RAL 9016)   jet black (RAL 9005)   white aluminum (RAL 9006)		
		_			
Control	ON / OFF Multilumen	Mounting	Plug-in mounting, in a three-phase		
Temperature range	-20 +40 °C		power rail		

K	Ra	lm	W	lm/W	Control	kg	Order no.
Color traffic white	e (RAL 9016), Ø 90 m	m			'		
4,000	≥ 90	5,040	39	129	ON / OFF Multilumen	0.8	51SF14MAD4B
Color deep black	(RAL 9005), Ø 90 m	m					
4,000	≥ 90	5,040	39	129	ON / OFF Multilumen	0.8	51SF34MAD4B
Color white alumi	num (RAL 9006), Ø 9	90 mm					
4,000	≥ 90	5,040	39	129	ON / OFF Multilumen	0.8	51SF64MAD4B

# Round 21

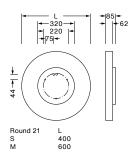
# Always the ideal light.

- Efficient wall and ceiling luminaire with up to 130 lm/W for nurseries, schools, offices, foyers and hotels
- · Available in three sizes with high-quality aluminum housing
- · Creates a pleasant room atmosphere by brightening the ceiling with an indirect component
- · DALI control and Tunable White versions for optimum individual light characteristics
- · Simple assembly









# Round 21, diffuser luminaire



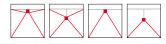












3,000 K   4,000 K   2,700 6,500 K
2,950     7,110 lm
CRI ≥ 80
up to 130 lm/W
Direct/indirect symmetric distribution, 85°   direct symmetric distribution, 105°
PMMA, microprismatic   opal

Control	DALI 2
Temperature range	−10 +35 °C
Rated service life	50,000 h (L80/B20) at AT = 25 °C
Electrical connection	Terminal, 5-pin
Housing	Aluminum, white
Mounting	Ceiling-mounted, wall-mounted, suspended installation

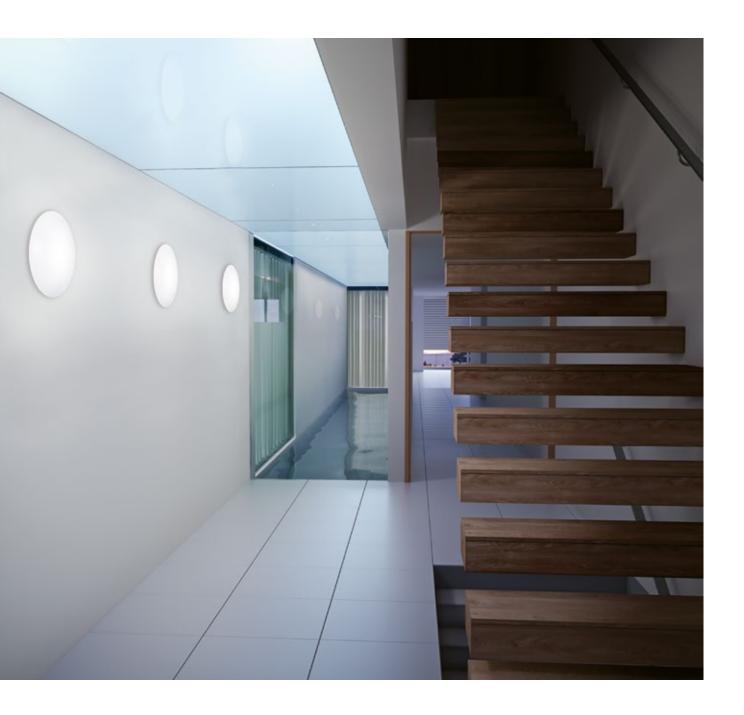
K	CRI	lm	w	lm/W	Control	UGR	kg	Order no.
Round S, Ø 400 mn	n, prismatic, dir	rect / indirect dis	stribution, 85	5°				
3,000	≥ 80	2,950	28	105	DALI 2	≤ 19	4.3	51MR34ND0321W
4,000	≥ 80	3,090	28	110	DALI 2	≤ 19	4.3	51MR34ND0421W
Round S, Ø 400 mn	n, opal, direct /	indirect distribu	tion, 105°					
3,000	≥ 80	3,420	30	113	DALI 2	≤ 22	3.9	51MR34GD0321W
4,000	≥ 80	3,580	30	118	DALI 2	≤ 22	3.9	51MR34GD0421W
Round M, Ø 600 mr	n, prismatic, di	rect / indirect di	stribution, 8	5°		,	'	
3,000	≥ 80	5,860	55	108	DALI 2	≤ 19	6.3	51MR36ND0321W
4,000	≥ 80	6,130	55	112	DALI 2	≤ 19	6.3	51MR36ND0421W
Round M, Ø 600 mr	n, opal, direct /	indirect distribu	ıtion, 105°					
3,000	≥ 80	6,790	55	124	DALI 2	≤ 22	5.8	51MR36GD0321W
4,000	≥ 80	7,110	55	130	DALI 2	≤ 22	5.8	51MR36GD0421W
Round M, Ø 600 mr	n, opal, direct o	distribution, 105	0					
2,700 6,500	≥ 80	4,060	41	98	DALI 2	≤ 22	5.9	51MR36FD0T21W

Accessories	PU	kg	Order no.
3-way wire suspension with canopy, white, round, connection cable	1 pc.	0.3	59MR300D0021W

# Round 31

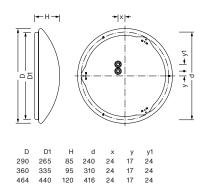
### Universal and efficient.

- Efficient wall and ceiling luminaire for entrance areas, staircases, corridors, hallways and ancillary rooms
- · Ideally suited for replacing luminaires with inefficient compact fluorescent lamps
- · Pleasant room atmosphere and uniform illumination due to diffuse distribution
- · DALI variants for simple light control
- · Multilumen versions for easy adjustment of illuminance









# Round 31, diffuser luminaire with cambered cover













Color temperature	3,000 K   4,000 K
Luminous flux	1,800     4,700 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 131 lm/W
Lighting technology	Direct, diffuse distribution, symmetric
Cover	PMMA

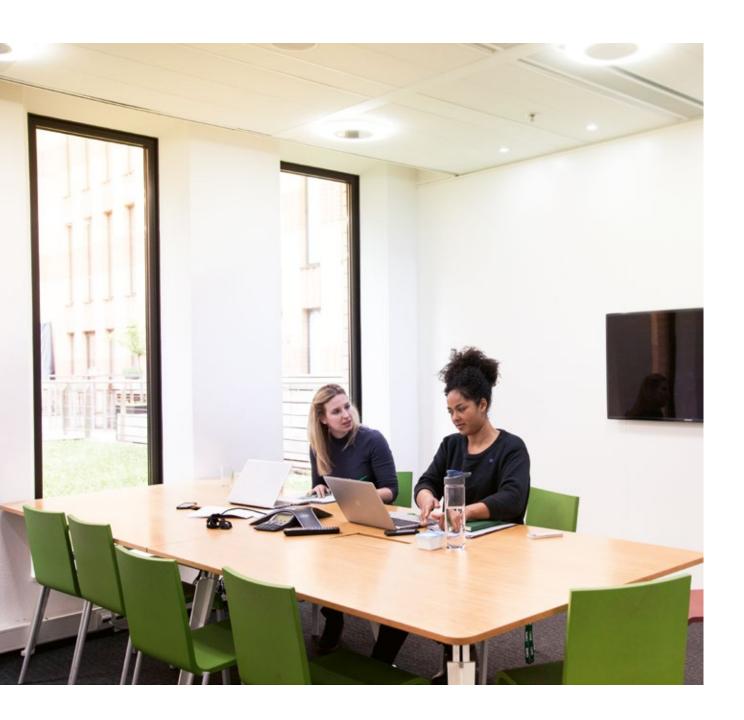
Control	ON/OFF   ON/OFF Multilumen   DALI 2
Temperature range	-20 +25 °C
Rated service life	50,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Terminal, 3 + 2-pin, max. 2.5 mm²
Housing	Steel, round, white
Mounting	Ceiling-mounted, wall-mounted

K	CRI	lm	W	lm/W	Control	kg	Order no.	
Diameter 29	Omm							
3,000	≥ 80	1,800	15	120	ON/OFF	0.8	5PJA010001A	
3,000	≥ 80	1,800	15	120	DALI 2	0.8	5PJA012001A	
4,000	≥ 80	1,900	15	126	ON / OFF	0.8	5PJA030001A	
4,000	≥ 80	1,900	15	126	DALI 2	0.8	5PJA032001A	
Diameter 36	Omm							
3,000	≥ 80	2,500	21	120	ON/OFF 1.3		5PJA110001A	
3,000	≥ 80	2,300	19	121	DALI 2	1.3	5PJA112001A	
4,000	≥ 80	2,700	21	128	ON / OFF	1.3	5PJA130001A	
4,000	≥ 80	2,500	19	131	DALI 2	1.3	5PJA132001A	
Diameter 46	1 mm							
3,000	≥ 80	4,400	29 39	120	ON / OFF Multilumen	1.7	5PJA210001A	
3,000	≥ 80	4,200	38	120	DALI 2 1.		5PJA212001A	
4,000	≥ 80	4,700	29 39	120	ON / OFF Multilumen		5PJA230001A	
4,000	≥ 80	4,400	38	120	DALI 2	1.7	5PJA232001A	

# Rondel 21

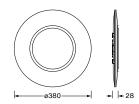
# The all-rounder for general lighting with innovative features.

- · Ultra-flat design for wall and ceiling mounting
- · Decorative ceiling or wall illumination via indirect component
- Simple integration of functional extensions such as emergency light or sensors
- Easy to use due to control via Bluetooth® 4.2
- Tunable White function creates ideal basis for SITECO HCL<sup>live</sup> applications









# Rondel 21, wall and ceiling luminaire, opal

















Color temperature	2,700 K   6,500 K
Luminous flux	1,710     1,800 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 100 lm/W
Lighting technology	Direct distribution, symmetric
Cover	PC, opal
Control	ON/OFF   Bluetooth® mesh 4.2

Temperature range	−20 +40 °C				
Rated service life	50,000 h (L70/B50) at AT = 25 °C				
Electrical connection	Terminal, 2-pin				
Housing	Sheet steel, round, powder-coated white, central cover PC, graphite (RAL 7037)				
Mounting	Ceiling-mounted, wall-mounted				

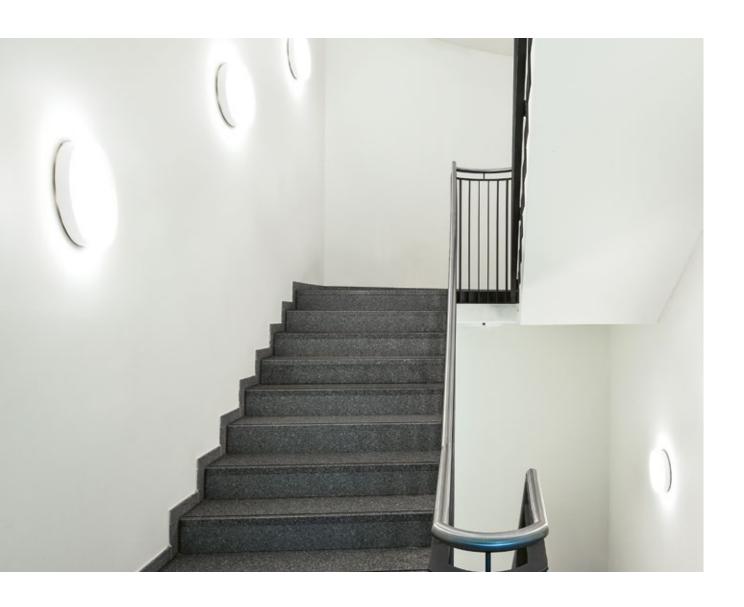
K	CRI	lm	W	lm/W	Control	kg	Order no.
Tunable White							
2,700     6,500	> 80	1,710	22	82	Bluetooth® mesh 4.2	1.3	5MD530CL18TW
Switchable							
3,000	> 80	1,800	18	100	ON / OFF	1.6	0MD5307L1830
4,000	> 80	1,800	18	100	ON / OFF	1.7	0MD5307L1840

Accessories	PU	kg	Order no.
Multisensor, h = 2.5 6 m, installation in luminaire, for switchable versions	1 pc.	0.5	5MD53003S
Emergency light element, for switchable versions	1 pc.	0.5	0MD5303B
Push-button interface, for Tunable White version	1 pc.	0.1	5LZ980100
Controller, recessed mounting in the ceiling, local control, wireless, for Tunable White version	1 pc.	0.2	5LZ980301
Controller, installation in the luminaire, local control, wireless, for Tunable White version	1 pc.	0.1	5LZ980300

# Rondel 31

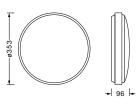
### Practical and robust.

- Efficient wall and ceiling luminaire for entrance areas, staircases, corridors, hallways and ancillary rooms
- · Ideally suited for replacing luminaires with inefficient compact fluorescent lamps
- Particularly resistant thanks to IP65, IK10 and UV-stabilized PC
- · Versions with presence sensor save further energy
- · DALI variants for simple light control









### Rondel 31, diffuser luminaire, opal, Ø 350 mm















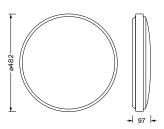


3 000 K I 4 000 K	Temperature range	-20 +40 °C		
1,800     2,550 lm	Rated service life	50,000 h (L80/B50) at AT = 25 °C		
CRI ≥ 80	Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Terminal, 5-pin, max. 2.5 mm²   for ON / OFF versions, lumen (lm) can be selected via DIP switch		
up to 134 lm/W	_			
Direct, extremely wide distribution, symmetric				
,	<ul><li>Housing</li></ul>	PC, traffic white (RAL 9016)		
PMMA, opal	— Mounting	Ceiling-mounted, wall-mounted		
ON / OFF Multilumen   DALI 2   Brightness and presence sensor	<u></u>	coming meaniced, wan meaniced		
	CRI ≥ 80  up to 134 lm/W  Direct, extremely wide distribution, symmetric  PMMA, opal  ON / OFF Multilumen   DALI 2	1,800     2,550 lm  CRI ≥ 80  up to 134 lm/W  Direct, extremely wide distribution, symmetric  PMMA, opal  ON / OFF Multilumen   DALI 2    Rated service life  Electrical connection  Housing  Mounting		

K	CRI	lm	W	lm/W	Control	kg	Order no.
Diamete	r 350 mm						
3,000	≥ 80	1,800   2,040   2,280   2,450	13.5   15.5   17.5   19.0	129	ON / OFF Multilumen	1.7	51WC10MA32A
3,000	≥ 80	2,450	19.0	129	DALI 2	1.9	51WC10DA32A
4,000	≥ 80	1,850   2,100   2,350   2,550	13.5   15.5   17.5   19.0	134	ON / OFF Multilumen	1.7	51WC10MA42A
4,000	≥ 80	2,550	19.0	134	DALI 2	1.9	51WC10DA42A
Ø 350 m	m, with H	F sensor			'		
3,000	≥ 80	1,800   2,040   2,280   2,450	15.0   17.0   19.0   20.4	120	ON / OFF Multilumen	1.9	51WC10MA32AS
3,000	≥ 80	2,450	20.5	120	DALI 2	2.0	51WC10DA32AS
4,000	≥ 80	1,850   2,100   2,350   2,550	15.0   17.0   19.0   20.4	124	ON / OFF Multilumen	1.9	51WC10MA42AS
4,000	≥ 80	2,550	20.5	124	DALI 2	2.0	51WC10DA42AS
					,		
Accesso	ories				PU	kg	Order no.
Single battery element with self-test function, 3 h, for luminaires without HF sensor					1 pc.	0.3	51WC10E







# Rondel 31, diffuser luminaire, opal, Ø 480 mm

















Color temperature	3,000 K   4,000 K
Luminous flux	3,600     4,400 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 129 lm/W
Lighting technology	Direct, extremely wide distribution, symmetric
Cover	PMMA, opal
Control	ON / OFF Multilumen   DALI 2   Brightness and presence sensor

−20 +40 °C
50,000 h (L80/B50) at AT = 25 °C
Terminal, 3-pin, max. 2.5 mm²   Terminal, 5-pin, max. 2.5 mm²   for ON / OFF versions, lumen (lm) can be selected via DIP switch
PC, traffic white (RAL 9016)
Ceiling-mounted, wall-mounted

K	CRI	lm	W	lm/W	Control	kg	Order no.
Diamet	er 480 m	m					
3,000	≥ 80	3,600   3,850   4,070   4,250	28.5   30.5   32.5   34.0	125	ON / OFF Multilumen	2.9	51WC10MB34A
3,000	≥ 80	4,250	34	125	DALI 2	3.0	51WC10DB34A
4,000	≥ 80	3,750   4,000   4,250   4,400	28.5   30.5   32.5   34.0	129	ON / OFF Multilumen	2.9	51WC10MB44A
4,000	≥ 80	4,400	34	129	DALI 2	3.0	51WC10DB44A
Ø 480 i	nm, with	HF sensor					
3,000	≥ 80	3,600   3,850   4,070   4,250	30.0   32.0   34.0   35.4	120	ON / OFF Multilumen	3.0	51WC10MB34AS
3,000	≥ 80	4,250	35.5	120	DALI 2	3.1	51WC10DB34AS
4,000	≥ 80	3,750   4,000   4,250   4,400	30.0   32.0   34.0   35.4	124	ON / OFF Multilumen	3.0	51WC10MB44AS
4,000	≥ 80	4,400	35.5	124	DALI 2	3.1	51WC10DB44AS

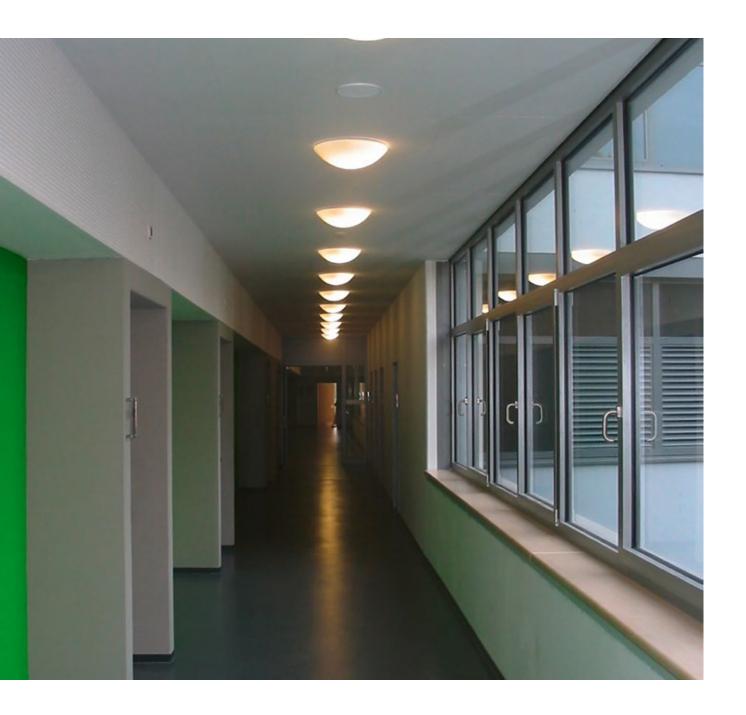
Accessories	PU	kg	Order no.
Single battery element with self-test function, 3 h, for luminaires without HF sensor	1 pc.	0.3	51WC10E



# Rondel 41

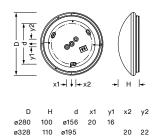
# The round classic with modern LED technology.

- · Timeless design with familiar shapes
- · Pleasant room atmosphere and uniform illumination due to diffuse distribution
- · Light according to needs with the version with presence and day/night sensor
- · Wide distribution UV-resistant diffuser
- · Also suitable for canopied outdoor areas









# Rondel 41, diffuser luminaire, opal















e sensor

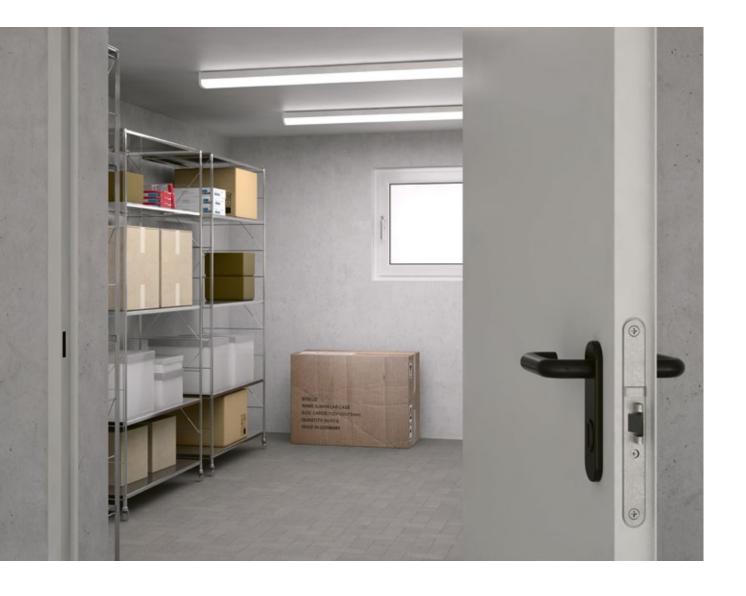
Temperature range	-30 +40 °C   with HF sensor -20 +40 °C
Rated service life	50,000 h (L80/B10) at AT = 25 °C
Electrical connection	Terminal, 3-pin, max. 2.5 mm²   Color temperature (K) selectable via DIP switch
Housing	Steel, round, powder-coated, white
Mounting	Ceiling-mounted, wall-mounted

K	CRI	lm	w	lm/W	Control	kg	Order no.
Diameter 280 mm	1						
3,000   4,000	≥ 80	1350	13	104	ON/OFF	0.6	51WD107AG1A
Ø 280 mm, with H	IF sensor						
3,000   4,000	≥ 80	1350	14	96	ON/OFF	0.6	51WD107AG1AS
Diameter 330 mm	1						
3,000   4,000	≥ 80	2300	21	105	ON/OFF	0.7	51WD107BG2A
Ø 330 mm, with H	IF sensor						
3,000   4,000	≥ 80	2300	22	100	ON/OFF	0.8	51WD107BG2AS

# Ecopack 31

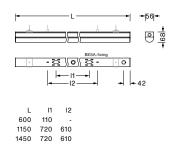
# The changeable light line.

- Replaces all standard T5 / T8 solutions with just three types thanks to Multilumen
- · Light color and luminous flux adjustable by switch
- · Variants with DALI 2 for problem-free lighting control
- · Presence detection with optional PIR sensor as accessory
- · 3h emergency light kit converts any luminaire into an emergency luminaire









# Ecopack 31, diffuser luminaire with opal cover

















Color temperature	3,000 K   4,000 K   5,000 K
Luminous flux	1,400     7,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	140 lm/W
Beam angle	Extremely wide distribution, symmetric
Cover	PC, frosted
Control	ON / OFF Multilumen   DALI 2

−20 +40 °C
50,000 h (L80/B50) at AT = 25 °C
Terminal, 3-pin, max. 2.5 mm²   for ON / OFF versions, Kelvin (K) and lumen (lm) can be selected via DIP switch
Aluminum, PC end cap, white
Ceiling-mounted   Wall-mounted

К	CRI	Im	w	lm/W	Control	ka	Order no.
	Chi			11117 VV	Control	kg	Order no.
Length: 600 mm							
3,000   4,000   5,000	≥ 80	1,400   1,800   2,200   2,600	11   14   17   20	130	ON / OFF Multilumen	8.0	51LJ12MDM20A
Length: 1,150 mm			,				,
3,000   4,000   5,000	≥ 80	2,800   3,500   4,200   4,800	20   25   30   35	135	ON / OFF Multilumen	1.2	51LJ12MKM40A
3,000   4,000   5,000	≥ 80	4,300	33	130	DALI 2	1.2	51LJ12DKM40A
Length: 1,450 mm			,				,
3,000   4,000   5,000	≥ 80	3,800   4,800   5,900   7,000	27   34   42   50	140	ON / OFF Multilumen	1.5	51LJ12MNM70A
3.000   4.000   5.000	≥ 80	7.000	52	135	DALI 2	1.5	51LJ12DNM80A

Accessories	PU	kg	Order no.
Mounting element for ceiling fixing, V2A steel	2 pc.	0.1	59LJ101
Wire suspension, V2A steel	2 pc.	0.1	59LJ102
Sensor kit (PIR)	1 pc.	0.1	59LJ201
FB for PIR sensor	1 pc.	0.1	59LJ202
3h emergency light kit / self test	1 pc.	0.3	59LJ203

# Batten 41

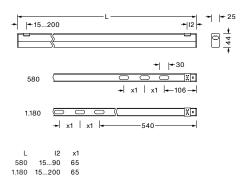
### Simple, functional, linear.

- · Universal LED batten luminaire with integrated control unit
- Easily adjustable light color via switch (3,000 K, 4,000 K or 5,000 K)
- Compact luminaire profile (25  $\times$  44 mm) also suitable for confined installation conditions
- · Non-interrupted, continuous light lines without dark spots up to 15 meters in length
- · Angled arrangements possible with flexible connection cable
- Pleasant spatial atmosphere and good visual comfort due to glare-free, uniformly wide light distribution
- · Permissible ambient temperature range to 40 °C
- Simple, time-saving mounting also in confined installation spaces due to mounting clips and electrical plug connector
- Mounting material and plug connector included in scope of supply of the corresponding luminaire









### Batten 41-F, batten luminaire, fixed connection











#### **Technical data**

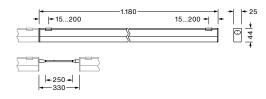
Color temperature	3,000 K   4,000 K   5,000 K
Luminous flux	1,000     2,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 143 lm/W
Lighting technology	Direct distribution, symmetric
Cover	PC, frosted

Control	ON/OFF
Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 2-pin
Housing	Aluminum, silver, PC end cap, white
Mounting	Ceiling-mounted, wall-mounted   single / continuous row mounting

K	CRI	lm	W	lm/W	Control	kg	Order no.
Length: 580 mm					·		
3,000 K   4,000 K   5,000 K	≥ 80	1,000	7	143	ON/OFF	0.3	51LP327DM10AF
Length: 1,180 mm							
3,000 K   4,000 K   5,000 K	≥ 80	2,000	14	143	ON/OFF	0.5	51LP327KM20AF
3,000 K   4,000 K   5,000 K	≥ 80	2,000	14	143	ON / OFF	0.5	51LP32







## Batten 41-E, batten luminaire, supplementary luminaire











#### Technical data

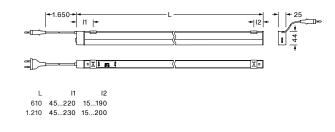
Color temperature	3,000 K   4,000 K   5,000 K
Luminous flux	2,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 143 lm/W
Lighting technology	Direct distribution, symmetric
Cover	PC, frosted

Control	ON/OFF
Temperature range	−20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Connectivity: Socket
Housing	Aluminum, silver, PC end cap, white
Mounting	Ceiling-mounted, wall-mounted   single / continuous row mounting

K	CRI	lm	w	lm/W	Control	kg	Order no.
Length: 1,180 mm			'	'			
3,000 K   4,000 K   5,000 K	≥ 80	2,000	14	143	ON/OFF	0.5	51LP327KM20AE







## Batten 41-N, batten luminaire with plug and switch











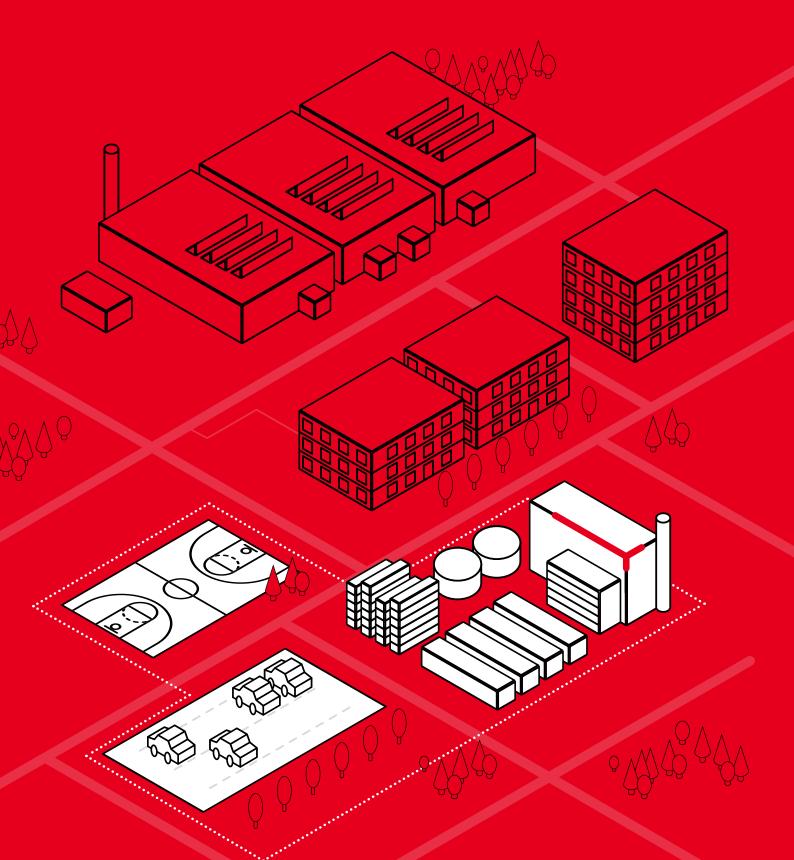
#### **Technical data**

Color temperature	3,000 K   4,000 K   5,000 K
Luminous flux	1,000     2,000 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 143 lm/W
Lighting technology	Direct distribution, symmetric
Cover	PC, frosted

Control	ON/OFF
Temperature range	-20 +40 °C
Rated service life	50,000 h (L80/B50) at AT = 25 °C
Electrical connection	Cable with plug
Housing	Aluminum, silver, PC end cap, white
Mounting	Ceiling-mounted, wall-mounted   single / continuous row mounting

K	CRI	lm	W	lm/W	Control	kg	Order no.
Length: 610 mm			'	'	'	"	
3,000 K   4,000 K   5,000 K	≥ 80	1,000	7	143	ON/OFF	0.3	51LP327DM10AN
Length: 1,210 mm							
3,000 K   4,000 K   5,000 K	≥ 80	2,000	14	143	ON/OFF	0.5	51LP327KM20AN

Projectors and floodlights	→ Page 150
Streetlights	→ Page 164
Pathway luminaires	→ Page 180
Design luminaires by Bergmeister	→ Page 192

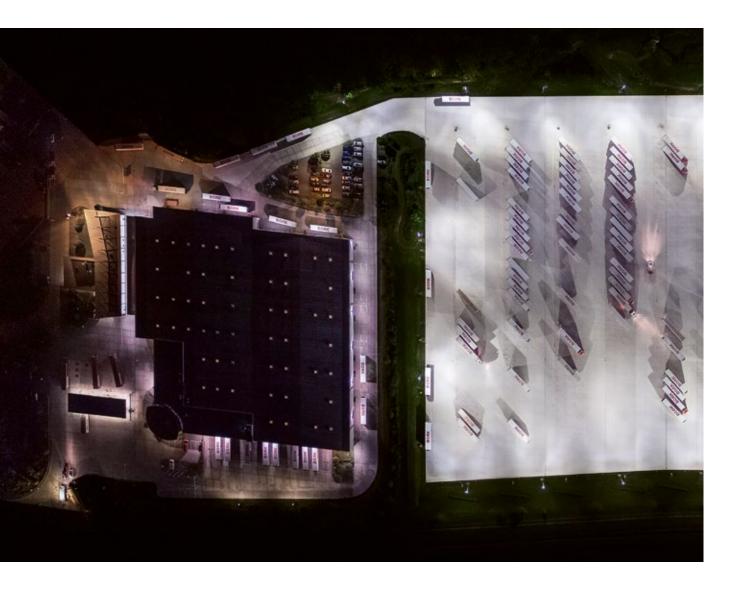




## Floodlight FL 11

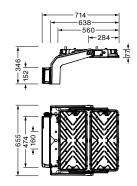
## Pinpoint precision. Limitless possibilities.

- Illumination of sports facilities and open spaces with fewer light points thanks to precise and efficient light distribution
- · Replaces traditional 2 kW floodlights
- · Glare-free light with 0 % light immissions, without disturbing light for residents and nature
- High-quality, long-lasting manufacture with non-yellowing PMMA lenses, robust glass covers and die-cast aluminum parts









### Floodlight FL 11 maxi with ECG on bracket























#### **Technical data**

roommour data				
Color temperature	3,000 K   4,000 K	Temperature range	-40 +30 °C	
Luminous flux	111,140     150,166 lm	Rated service life	100,000 h (L96/B10) at AT = 10 °C	
Color rendering index	CRI ≥ 70	Electrical connection	Terminal, 5-pin, max. 2.5 mm²	
Luminous efficacy	up to 149 lm/W	Housing	Die-cast aluminum, coated, natural	
Light control	Asymmetric direct distribution   PMMA lens	Recommended mounting height	from 10 m	
Cover	Toughened safety glass, clear	Mounting	Mounted on supporting structure   on	
Control	DALI 2		crossbar   on wall; incl. support bracke	

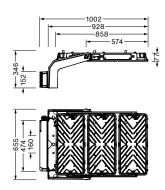
K	CRI	lm	W	lm/W	Control	kg	Order no.
Symmetric w	ide distribution, P	L43					
3,000	≥ 70	111,140	917	121	DALI 2	23.1	5XA779115A01AA
4,000	≥ 70	117,880	947	124	DALI 2	23.1	5XA779116A01AA
Symmetric w	ide distribution, P	L64					
3,000	≥ 70	138,810	1,022	136	DALI 2	23.1	5XA779115V01AA
4,000	≥ 70	144,940	1,022	141	DALI 2	23.1	5XA779116V01AA
Symmetric w	ide distribution, P	L33T					
3,000	≥ 70	143,946	1,006	143	DALI 2	23.1	5XA779115T01AA
4,000	≥ 70	150,166	1,006	149	DALI 2	23.1	5XA779116T01AA

PL43: Field illumination, illuminated area in relation to the light point height: Width 4/depth 3 PL64: Field illumination, illuminated area in relation to the light point height: Width 6/depth 4 PL33T: Illumination of corners, illuminated area in relation to the light point height: Width 3/depth 3

Accessories	PU	kg	Order no.
Crossbar, single, galvanized, Ø 89 108 mm	1 pc.	4.5	5NY76901XA31
Crossbar, single, galvanized, Ø 102 / 108 mm	1 pc.	2.4	5NY74901XA31
Crossbar, 2 4-fold, galvanized, Ø 89 108 mm	1 pc.	15.6	5NY76902XA31
Crossbar, 3 5-fold, galvanized, Ø 89 108 mm	1 pc.	23.1	5NY76903XA31
Viewfinder	1 pc.	0.6	5XA779AD
Fixing accessories for ECG mounting in the mast	1 pc.	1.3	5XA779REH
Connection box	1 pc.	0.6	5XA779RECB
External panel for RS6	1 pc.	2	5XA779LS6
Surrounding cover maxi	1 pc.	1.8	5XA779FS2







### Floodlight FL 11 maxi pro with ECG on bracket























#### **Technical data**

Color temperature	3,000 K   4,000 K	Temperature range	-40 +30 °C		
Luminous flux at AT = 10°	162,210     225,250 lm	Rated service life	100,000 h (L96/B10) at AT = 10 °C		
Color rendering index	CRI ≥ 70	Electrical connection	Terminal, 5-pin, max. 2.5 mm²		
Luminous efficacy	up to 149 lm/W	Housing	Die-cast aluminum, coated, natural		
Light control	Asymmetric direct distribution   PMMA lens	Recommended mounting height	from 10 m		
Cover	Toughened safety glass, clear	Mounting	Mounted on supporting structure   on		
Control	DALI 2	<del></del>	crossbar   on wall; incl. support bracke		

K	CRI	lm	w	lm/W	Control	kg	Order no.
Symmetric w	ide distribution, P	L43					
3,000	≥ 70	162,210	1,335	122	DALI 2	29.6	5XA779125A01AA
4,000	≥ 70	172,790	1,338	124	DALI 2	29.6	5XA779126A01AA
Symmetric w	ide distribution, P	L64					
3,000	≥ 70	206,660	1,540	134	DALI 2	29.6	5XA779125V01AA
4,000	≥ 70	216,630	1,540	141	DALI 2	29.6	5XA779126V01AA
Symmetric w	ide distribution, P	L33T					
3,000	≥ 70	215,920	1,509	143	DALI 2	29.6	5XA779125T01AA
4,000	≥ 70	225,250	1,509	149	DALI 2	29.6	5XA779126T01AA

PL43: Field illumination, illuminated area in relation to the light point height: Width 4/depth 3 PL64: Field illumination, illuminated area in relation to the light point height: Width 6/depth 4 PL33T: Illumination of corners, illuminated area in relation to the light point height: Width 3/depth 3

Accessories	PU	kg	Order no.
Crossbar, single, galvanized, Ø 89 108 mm	1 pc.	4.5	5NY76901XA31
Crossbar, single, galvanized, Ø 102 / 108 mm	1 pc.	2.4	5NY74901XA31
Crossbar, 2 4-fold, galvanized, Ø 89 108 mm	1 pc.	15.6	5NY76902XA31
Crossbar, 3 5-fold, galvanized, Ø 89 108 mm	1 pc.	23.1	5NY76903XA31
Viewfinder	1 pc.	0.6	5XA779AD
Fixing accessories for ECG mounting in the mast	1 pc.	1.3	5XA779REH
Connection box	1 pc.	0.6	5XA779RECB
External panel for RS6	1 pc.	2.0	5XA779LS6
Surrounding cover maxi	1 pc.	1.8	5XA779FS2



## Floodlight FL 21 iQ

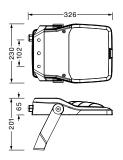
### The all-rounder for area lighting.

- Suitable for all applications, from parking areas and loading ramps to container terminals through to sports facilities and event arenas
- Avoids light immission and glare due to design as wide beam floodlight with 0 % light immission at an inclination of up to 15°
- Reliable operation even under adverse weather conditions thanks to optimized thermal management and high protection rating (IP66)









### Floodlight FL 21 micro with support bracket





















#### **Technical data**

Color temperature	3,000 K   4,000 K	Rated service life	100,000 h (L97/B10) at AT = 25 °C		
Luminous flux	2,870     4,750 lm	Electrical connection	Terminal, 6-pin, max. 1.5 mm²		
Color rendering index	CRI ≥ 70	Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively		
Luminous efficacy	up to 137 lm/W	<u> </u>			
Light control	Direct distribution   PMMA lens	- Decemberd			
Cover	Toughened safety glass, clear	<ul> <li>Recommended mounting height</li> </ul>	3–5 m		
Control	ON / OFF Multilumen, iQ Comfort	Mounting	Mounted on supporting structure   on		
Temperature range	-40 +40 °C	_	crossbar   on wall; incl. support bracke		

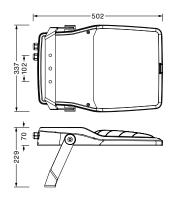
K	CRI	lm	W	lm/W	Control	kg	Order no.
Symmetric	wide distribution	, PL43					
3,000	≥ 70	4,560	38	119	ON / OFF Multilumen	3.2	5XA7763A2A1A
4,000	≥ 70	4,750	38	124	ON / OFF Multilumen	3.2	5XA7763A4A1A
3,000	≥ 70	3,040	23	132	iQ Comfort	3.2	5XA7761A2A1A
4,000	≥ 70	3,170	23	137	iQ Comfort	3.2	5XA7761A4A1A
Symmetric	wide distribution	, PL64					
3,000	≥ 70	4,290	38	112	ON / OFF Multilumen	3.2	5XA7763A2E1A
4,000	≥ 70	4,470	38	116	ON / OFF Multilumen	3.2	5XA7763A4E1A
3,000	≥ 70	2,870	23	124	iQ Comfort	3.2	5XA7761A2E1A
4,000	≥ 70	2,980	23	129	iQ Comfort	3.2	5XA7761A4E1A

PL43: Field illumination, illuminated area in relation to the light point height: Width 4 / depth 3 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

Accessories	PU	kg	Order no.
Crossbar, single, galvanized, Ø 60 mm	1 pc.	2.0	5NY74701XA01
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 60 mm	1 pc.	2.0	5NY74701XA0108
Crossbar, 1-fold, galvanized, Ø 76 mm	1 pc.	2.2	5NY74701XA11
Crossbar, 1-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	2.2	5NY74701XA1108
Crossbar, 1-fold, galvanized, Ø 89 mm	1 pc.	2.3	5NY74701XA21
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 89 mm	1 pc.	2.3	5NY74701XA2108
Crossbar, 2-fold, galvanized, Ø 76 mm	1 pc.	3.2	5NY74702XA11
Crossbar, 2-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	3.2	5NY74702XA1108
Crossbar, 2-fold, galvanized, Ø 89 mm	1 pc.	3.5	5NY74702XA21







### Floodlight FL 21 mini with support bracket























#### **Technical data**

Color temperature	3,000 K   4,000 K
Luminous flux	11,790     20,890 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 150 lm/W
Light control	Direct distribution   PMMA lens
Cover	Toughened safety glass, clear
Control	ON / OFF Multilumen, iQ Comfort
Temperature range	-40 +40 °C

Rated service life	100,000 h (L97/B10) at AT = 25 °C   Multilumen versions: 50,000 h (L95/B10) at AT = 25 °C
Electrical connection	Terminal, 6-pin, max. 1.5 mm <sup>2</sup>
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively
Recommended mounting height	5–8 m
Mounting	Mounted on supporting structure   on crossbar   on wall; incl. support bracket

K	CRI	lm	W	lm/W	Control	kg	Order no.
Symmetric	wide distribution	, PL43					
3,000	≥ 70	20,010	164	122	ON / OFF Multilumen	7.2	5XA7773C2A1A*
4,000	≥ 70	20,890	164	127	ON / OFF Multilumen	7.2	5XA7773C4A1A*
3,000	≥ 70	12,520	87	144	iQ Comfort	7.2	5XA7771C2A1A
4,000	≥ 70	13,050	87	150	iQ Comfort	7.2	5XA7771C4A1A

<sup>\*</sup>Rated service life 50,000 h (L95/B10) at AT = 25 °C

#### Symmetric wide distribution, PL64

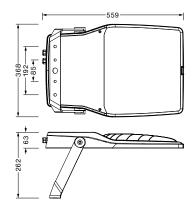
-,		,					
3,000	≥ 70	18,829	164	115	ON / OFF Multilumen	7.2	5XA7773C2E1A
4,000	≥ 70	19,657	164	120	ON / OFF Multilumen	7.2	5XA7773C4E1A
3,000	≥ 70	11,790	87	136	iQ Comfort	7.2	5XA7771C2E1A
4,000	≥ 70	12,280	87	141	iQ Comfort	7.2	5XA7771C4E1A

PL43: Field illumination, illuminated area in relation to the light point height: Width 4 / depth 3 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

Accessories	PU	kg	Order no.
Crossbar, single, galvanized, Ø 60 mm	1 pc.	2.0	5NY74701XA01
Crossbar, 1-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 60 mm	1 pc.	2.0	5NY74701XA0108
Crossbar, 1-fold, galvanized, Ø 76 mm	1 pc.	2.2	5NY74701XA11
Crossbar, 1-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	2.2	5NY74701XA1108
Crossbar, 1-fold, galvanized, Ø 89 mm	1 pc.	2.3	5NY74701XA21
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 89 mm	1 pc.	2.3	5NY74701XA2108
Crossbar, 2-fold, galvanized, Ø 76 mm	1 pc.	3.2	5NY74702XA11
Crossbar, 2-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	3.2	5NY74702XA1108
Crossbar, 2-fold, galvanized, Ø 89 mm	1 pc.	3.5	5NY74702XA21







## Floodlight FL 21 midi with support bracket

















#### **Technical data**

roommour data				
Color temperature	3,000 K   4,000 K	Rated service life	50,000 h (L95/B10) at AT = 25 °C	
Luminous flux	34,560     39,970 lm	Electrical connection	Terminal, 6-pin, max. 1.5 mm²	
Color rendering index	CRI ≥ 70	Housing	Die-cast aluminum, powder-coated,	
Luminous efficacy	up to 142 lm/W		SITECO metallic gray (DB 702S), seal can be replaced non-destructively	
Light control	Direct distribution   PMMA lens	Recommended	8–12 m	
Cover	Toughened safety glass, clear	mounting height	0-12111	
Control	ON / OFF Multilumen, iQ Comfort	Mounting	Mounted on supporting structure   on	
Temperature range	-40 +40 °C		crossbar   on wall; incl. support bracke	

K	CRI	lm	w	lm/W	Control	kg	Order no.
Symmetric v	wide distribution	, PL43					
3,000	≥ 70	38,270	287	133	ON / OFF Multilumen	10.2	5XA7783F2A1A
4,000	≥ 70	39,970	287	139	ON / OFF Multilumen	10.2	5XA7783F4A1A
3,000	≥ 70	36,680	270	136	iQ Comfort	10.2	5XA7781F2A1A
4,000	≥ 70	38,290	270	142	iQ Comfort	10.2	5XA7781F4A1A
Symmetric	wide distribution	, PL64					
3,000	≥ 70	36,031	287	126	ON / OFF Multilumen	10.2	5XA7783F2E1A
4,000	≥ 70	37,632	287	131	ON / OFF Multilumen	10.2	5XA7783F4E1A
3,000	≥ 70	34,560	270	128	iQ Comfort	10.2	5XA7781F2E1A
4,000	≥ 70	36,050	270	134	iQ Comfort	10.2	5XA7781F4E1A

PL43: Field illumination, illuminated area in relation to the light point height: Width 4 / depth 3 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

Accessories	PU	kg	Order no.
Crossbar, single, galvanized, Ø 60 mm	1 pc.	2.0	5NY74701XA01
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 60 mm	1 pc.	2.0	5NY74701XA0108
Crossbar, 1-fold, galvanized, Ø 76 mm	1 pc.	2.2	5NY74701XA11
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	2.2	5NY74701XA1108
Crossbar, 1-fold, galvanized, Ø 89 mm	1 pc.	2.3	5NY74701XA21
Crossbar, single, galvanized, coated, SITECO metallic gray (DB 702S) Ø 89 mm	1 pc.	2.3	5NY74701XA2108
Crossbar, 2-fold, galvanized, Ø 76 mm	1 pc.	3.2	5NY74702XA11
Crossbar, 2-fold, galvanized, coated, SITECO metallic gray (DB 702S) Ø 76 mm	1 pc.	3.2	5NY74702XA1108
Crossbar, 2-fold, galvanized, Ø 89 mm	1 pc.	3.5	5NY74702XA21

# SiCompact 31

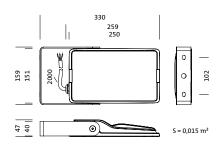
### Industrial design meets state-of-the-art technology.

- · Ideally suited for replacing luminaires with conventional halogen and high-pressure lamps
- · Simple, quick installation with mounting bracket and pre-assembled connection cable (2 m)
- Efficient operation with up to 170 lm/W and asymmetric narrow beam distribution
- Robust housing and ESD-protected LED module (sealed for life), IP66, IK08, dustproof, tested vibration stability with 250,000 strikes, ENEC-certified
- · Highly flexible for all applications with four sizes and rated luminous flux levels from 4,400 to 70,000 lm









## SiCompact 31 micro, floodlight

















#### Technical data

Color temperature	3,000 K   4,000 K	Rated service life	3,000 K: 73,000 h (L80/B50) at AT = 25 °C		
Luminous flux	4,400 lm		4,000 K: 100,000 h (L80/B50) at AT = 25 °C		
Color rendering index	CRI ≥ 70	Electrical connection	Pre-assembled cable, 3×1.5 mm <sup>2</sup> ,		
Luminous efficacy	up to 152 lm/W	Electrical confidention	length 2 m		
Lighting technology	Direct distribution, asymmetric   light emission 0 % at 0° inclination	Housing	Die-cast aluminum, white aluminum (RAL 9006), bracket made of sheet steel,		
Cover	Toughened safety glass, clear		coated, white aluminum (RAL 9006)		
Control	ON / OFF	Mounting	Mounted on supporting structure		
Temperature range	-40 +45 °C		on crossbar   on wall		

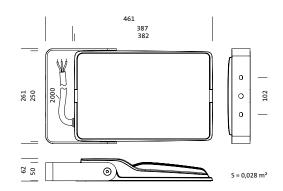
K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetric o	listribution, PL32		"			'	
3,000	≥ 70	4,400	30	147	ON/OFF	2.7	5XA7561A1K23
4,000	≥ 70	4,400	29	152	ON/OFF	2.7	5XA7561A2K23

 $PL32: Field \ illumination, \ illuminated \ area \ in \ relation \ to \ the \ light \ point \ height: \ Width \ 3 \ / \ depth \ 2$ 

Accessories	PU	kg	Order no.
Connectivity: Plug/socket, IP65, 3-pin, max. 2.5 mm <sup>2</sup>	1 pc.	0.1	5NX30003







## SiCompact 31 mini, floodlight

















#### Technical data

Color temperature	3,000 K   4,000 K	Rated service
Luminous flux	8,000     20,000 lm	_
Color rendering index	CRI ≥ 70	Electrical cor
Luminous efficacy	up to 170 lm/W	— Electrical col
Lighting technology	Direct distribution, asymmetric   light emission 0 % at 0° inclination	Housing
Cover	Toughened safety glass, clear	
Control	ON / OFF	Mounting
Temperature range	-40 +45 °C	

Rated service life	3,000 K: 73,000 h (L80/B50) at AT = 25°C 4,000 K: 100,000 h (L80/B50) at AT = 25°C
Electrical connection	Pre-assembled cable, $3 \times 1.5  \text{mm}^2$ , length 2 m
Housing	Die-cast aluminum, white aluminum (RAL 9006), bracket made of sheet steel, coated, white aluminum (RAL 9006)
Mounting	Mounted on supporting structure   on crossbar   on wall

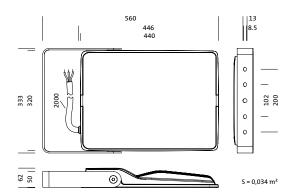
K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetric	distribution, PL32			·			
3,000	≥ 70	8,000	48	167	ON/OFF	5.8	5XA7571B1K23
3,000	≥ 70	15,000	100	150	ON/OFF	5.8	5XA7571C1K23
3,000	≥ 70	20,000	130	154	ON/OFF	5.8	5XA7571F1K23
4,000	≥ 70	8,000	47	170	ON/OFF	5.8	5XA7571B2K23
4,000	≥ 70	15,000	95	158	ON/OFF	5.8	5XA7571C2K23
4,000	≥ 70	20,000	130	154	ON/OFF	5.8	5XA7571F2K23

 $PL32: Field \ illumination, illuminated \ area \ in \ relation \ to \ the \ light \ point \ height: Width \ 3 \ / \ depth \ 2$ 

Accessories	PU	kg	Order no.
Connectivity: Plug/socket, IP65, 3-pin, max. 2.5 mm <sup>2</sup>	1 pc.	0.1	5NX30003







## SiCompact 31 midi, floodlight





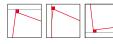












#### **Technical data**

3,000 K   4,000 K	Rated service life	3,000 K: 73,000 h (L80/B50) at AT = 25 °C		
27,000   37,000 lm		4,000 K: 100,000 h (L80/B50) at AT = 25 °C		
ex CRI≥70		Pre-assembled cable, 3×1.5 mm <sup>2</sup> ,		
up to 164 lm/W	Electrical confidention	length 2 m		
Direct distribution, asymmetric   light emission 0 % at 0° inclination	Housing	Die-cast aluminum, white aluminum (RAL 9006), bracket made of sheet steel,		
Toughened safety glass, clear		coated, white aluminum (RAL 9006)		
ON / OFF	Mounting	Mounted on supporting structure		
nperature range -40 +45 °C		on crossbar   on wall		
	27,000   37,000 lm  CRI ≥ 70  up to 164 lm/W  Direct distribution, asymmetric   light emission 0 % at 0° inclination  Toughened safety glass, clear  ON / OFF	27,000   37,000 lm  CRI ≥ 70  up to 164 lm/W  Direct distribution, asymmetric   light emission 0 % at 0° inclination  Toughened safety glass, clear  ON / OFF    CRI ≥ 70    Electrical connection  Housing		

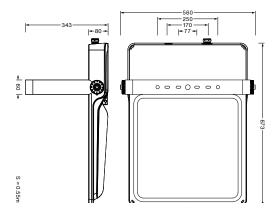
K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetric o	distribution, PL32	-					
3,000	≥ 70	27,000	171	158	ON/OFF	8.5	5XA7581D1K23
3,000	≥ 70	37,000	250	148	ON/OFF	8.5	5XA7581E1K23
4,000	≥ 70	27,000	165	164	ON/OFF	8.5	5XA7581D2K23
4,000	≥ 70	37,000	243	152	ON/OFF	8.5	5XA7581E2K23

 $PL32: Field\ illumination,\ illuminated\ area\ in\ relation\ to\ the\ light\ point\ height:\ Width\ 3\,/\, depth\ 2$ 

Accessories	PU	kg	Order no.
Connectivity: Plug/socket, IP65, 3-pin, max. 2.5 mm <sup>2</sup>	1 pc.	0.1	5NX30003







## SiCompact 31 maxi, floodlight



















#### **Technical data**

Color temperature	3,000 K   4,000 K
Luminous flux	65,000   70,000 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 143 lm/W
Lighting technology	Direct distribution, asymmetric   light emission 0 % at 0° inclination
Cover	Toughened safety glass, clear
Control	DALI

-30 +35 °C
100,000 h (L80/B50) at AT = 25 °C
Terminal, 5-pin
Die-cast aluminum, white aluminum (RAL 9006), bracket made of sheet steel, powder-coated, white aluminum (RAL 9006)
Mounted on supporting structure   on crossbar   on wall

K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetric dis	stribution, PL32						
3,000	≥ 70	65,000	490	133	DALI	17.0	5XA7592E1K22
4,000	≥ 70	70,000	490	143	DALI	17.0	5XA7592E2K22

 $PL32: Field\ illumination, illuminated\ area\ in\ relation\ to\ the\ light\ point\ height:\ Width\ 3\,/\ depth\ 2$ 



## Streetlight SL 11 iQ

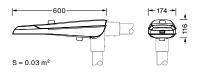
#### Intelligent light. Performance at its peak.

- Streetlight SL 11 iQ combines outstanding lighting technology and efficiency of up to 166 lm/W with a modular, sustainable product concept
- The patented SITECO iQ luminaire electronics with intelligent functions ensure convenient handling, comprehensive control and diagnostic options and minimal maintenance requirements
- Additional interfaces in accordance with Zhaga-D4i enable state-of-the-art lighting control, wireless networking and the connection of versatile sensor technology









### Streetlight SL 11 micro, Smart-Interface, mast luminaire



























3,000 K	Electrical connection	Terminal, 5-pin, max. 1.5 mm <sup>2</sup>		
1,880   3,700 lm		pre-assembled cable		
CRI ≥ 70	Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system		
up to 153 lm/W	_			
Direct, asymmetric distribution				
3-zone faceted reflector, silver-coated, high gloss	Recommended mounting height	4-8 m		
PMMA, clear	Mounting	Please order mast flange separately.		
Control iQ Street-Remote, D4i with power reduction		inclination can be adjusted without tools: 0°, 5°, 10°, 15° (post top)		
-25 +50 °C		0°, -5°, -10°, -15° (side entry)		
100,000 h at AT = 25 °C	Spigot size	Spigot size: 60 / 76 mm (post top) and 42 / 60 / 76 mm (side entry)		
	1,880   3,700 lm  CRI ≥ 70  up to 153 lm/W  Direct, asymmetric distribution   3-zone faceted reflector, silver-coated, high gloss  PMMA, clear iQ Street-Remote, D4i with power reduction  -25 +50 °C	1,880   3,700 lm  CRI ≥ 70  up to 153 lm/W  Direct, asymmetric distribution   3-zone faceted reflector, silver-coated, high gloss  PMMA, clear iQ Street-Remote, D4i with power reduction  -25 +50 °C  Housing  Recommended mounting height  Mounting		

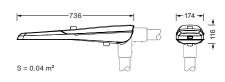
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetri	c wide distrib	ution, ST1.2a, w	vith Smart-Inte	rface at top	and bottom			
3,000	≥ 70	1,880	12	13	6	iQ Street-Remote, D4i	5.2	5XC1A51Y08CE
3,000	≥ 70	3,700	25	26	12	iQ Street-Remote, D4i	5.2	5XC1A51Y08DE

ST1.2a: for wide main roads, ratio of light point height to road width 1:1.2  $\,$ 

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60 mm	1 pc.	0.7	5XC10108XM1
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Reducer, spigot size: 76 / 60mm	1 pc.	0.1	5XC1008XR12







## Streetlight SL 11 mini, Smart-Interface, mast luminaire

























#### Technical data

Color temperature	3,000 K
Luminous flux	3,570   8,450 lm
Color rendering index	CRI > 70
Luminous efficacy	up to 160 lm/W
Light control	Direct, asymmetric distribution   3-zone faceted reflector, silver-coated, high gloss
Cover	PMMA, clear
Control	iQ Street-Remote, D4i with power reduction
Temperature range	-25 +50 °C
Rated service life	100,000 h at AT = 25 °C

SITECO metallic gray (DB 7028) can be replaced non-destructive multi-stage sealing system  4–8 m  Mounting  Please order mast flange separa clination can be adjusted withou 0°, 5°, 10°, 15° (post top)   0°, –6 –15° (side entry)  Spigot size  Spigot size: 60 / 76 mm (post top)		
SITECO metallic gray (DB 7028) can be replaced non-destructive multi-stage sealing system  4–8 m  Mounting  Please order mast flange separa clination can be adjusted withou 0°, 5°, 10°, 15° (post top)   0°, –6 –15° (side entry)  Spigot size  Spigot size: 60 / 76 mm (post top)	ctrical connection	Terminal, 5-pin, max. 1.5 mm²
mounting height  Mounting  Please order mast flange separate clination can be adjusted without 0°, 5°, 10°, 15° (post top)   0°, -6, -15° (side entry)  Spigot size  Spigot size: 60 / 76 mm (post top)	9	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system
clination can be adjusted withou 0°, 5°, 10°, 15° (post top)   0°, -6°, -15° (side entry)  Spigot size Spigot size: 60 / 76 mm (post top)		4-8 m
	(	Please order mast flange separately, in- plination can be adjusted without tools: 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, -15° (side entry)
42 / 60 / 76 mm (side entry)		Spigot size: 60 / 76 mm (post top) and 42 / 60 / 76 mm (side entry)

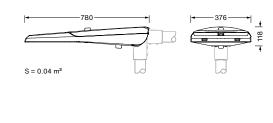
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetri	c wide distrib	ution, ST1.2a, w	ith Smart-Inte	rface at top	and bottom			
3,000	> 70	3,570	22	23	11	iQ Street-Remote, D4i	6.8	5XC2A51Y08GE
3,000	> 70	8,450	58	61	27	iQ Street-Remote, D4i	6.8	5XC2A51Y08HE

ST1.2a: for wide main roads, ratio of light point height to road width 1:1.2

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60mm	1 pc.	0.7	5XC10108XM1
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Reducer, spigot size: 76 / 60mm	1 pc.	0.1	5XC1008XR12







## Streetlight SL 11 midi, Smart-Interface, mast luminaire























#### **Technical data**

Color temperature 3,000 K		Electrical connection	Terminal, 5-pin, max. 1.5 mm <sup>2</sup>		
Luminous flux	uminous flux 9,210   18,110 lm		pre-assembled cable		
Color rendering index CRI ≥ 70		Housing	Die-cast aluminum, powder-coated,		
Luminous efficacy	up to 155 lm/W		SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system		
Light control	Direct, asymmetric distribution   3-zone				
-	faceted reflector, silver-coated, high gloss	Recommended mounting height	6–12 m		
Cover PMMA, clear		Mounting	Please order mast flange separately, in-		
Control	iQ Street-Remote, D4i with power reduction	ū	clination can be adjusted without too 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, 15° (post top)		
Temperature range -25 +50 °C			-15° (side entry)		
Rated service life	100,000 h at AT = 25 °C	Spigot size	Spigot size: 60 / 76 mm (post top) and 42 / 60 / 76 mm (side entry)		

K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetric	c wide distribu	ıtion, ST1.2a, v	vith Smart-Inte	rface at top	and bottom			,
3,000	≥ 70	9,210	59	62	29	iQ Street-Remote, D4i	11.5	5XC3A51Y08LE
3,000	≥ 70	18,110	123	130	56	iQ Street-Remote, D4i	11.5	5XC3A51Y08ME

ST1.2a: for wide main roads, ratio of light point height to road width 1:1.2

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60 mm	1 pc.	0.7	5XC10108XM1
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Reducer, spigot size: 76 / 60 mm	1 pc.	0.1	5XC1008XR12

## Streetlight SL 21 iQ

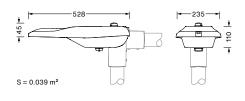
### Light with maximum flexibility.

- Streetlight SL 21 iQ light for every need thanks to precise lighting technology and a broad portfolio of different light colors and distributions
- · Zhaga interfaces enable state-of-the-art lighting control, wireless networking and versatile sensor technology
- · The SITECO iQ luminaire electronics offer comprehensive control and diagnostic options
- The modular product concept ensures a long service life of more than 100,000 hours and impresses with low operating costs thanks to maximum energy efficiency of up to 158 lm/W









## Streetlight SL 21 micro, Smart-Interface, mast luminaire























#### **Technical data**

Color temperature	3,000 K
Luminous flux	2,880     5,110 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 151 lm/W
Light control	Direct, asymmetric distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	iQ Street-Remote, D4i
Temperature range	-40 +50 °C

Rated service life	100,000 h (L97/B10) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system
Recommended mounting height	3-6 m
Mounting	For post-top or side-entry mounting, inclination adjustable 0°, 5°, 10°, 15°
Spigot size	42/60/76 mm

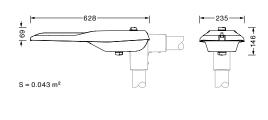
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetr	ic wide distrib	ution, ST1.0a, w	ith Smart-Inte	rface at top	and bottom			
3,000	≥ 70	2,880	19.1	19.7	9.2	iQ Street-Remote, D4i	4.8	5XE1D31Y08CB
3,000	≥ 70	5,110	39.1	40.2	16.7	iQ Street-Remote, D4i	4.8	5XE1D31Y08DB
Symmetric	wide distribut	tion, PL52, with	Smart-Interfa	ce at top and	bottom			
3,000	≥ 70	5,030	39.1	40.2	16.7	iQ Street-Remote, D4i	4.8	5XE1H31Y08DB

ST1.0a: for normal main roads, ratio of light point height to road width 1:1 PL52: Field illumination, illuminated area in relation to the light point height: Width 5 / depth 2

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60mm	1 pc.	0.7	5XC10108XM1
Reducer, spigot size: 76 / 60 mm	1 pc.	0.1	5XC1008XR12
Reducer, spigot size: 76 / 42mm	1 pc.	0.1	5XC1008XR14
Reducer, spigot size: 76 / 42 mm, additional inclination of 5° possible	1 pc.	0.1	5XC1008XR14A







## Streetlight SL 21 mini, Smart-Interface, mast luminaire

























#### **Technical data**

Color temperature	3,000 K
Luminous flux	5,880     11,210 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 155 lm/W
Light control	Direct, asymmetric distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	iQ Street-Remote, D4i
Temperature range	−30 +50 °C

Rated service life	100,000 h (L97/B10) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system
Recommended mounting height	4–10 m
Mounting	For post-top or side-entry mounting, inclination adjustable 0°, 5°, 10°, 15°
Spigot size	42 / 60 / 76 mm

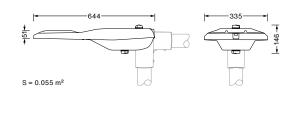
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetr	ic wide distrib	ution, ST1.0a, v	vith Smart-Inte	rface at top	and bottom			
3,000	≥ 70	5,990	39.8	41.2	18.0	iQ Street-Remote, D4i	5.4	5XE2D31Y08GB
3,000	≥ 70	9,750	71.0	75.2	30.4	iQ Street-Remote, D4i	5.4	5XE2D31Y08HB
3,000	≥ 70	11,210	72.5	75.7	32.7	iQ Street-Remote, D4i	5.4	5XE2D31Y08JB
Symmetric	wide distribut	ion, PL52, with	Smart-Interfa	ce at top and	bottom			
3,000	≥ 70	5,880	39.8	41.2	18.0	iQ Street-Remote, D4i	5.4	5XE2H31Y08GB
3,000	≥ 70	9,580	71.0	75.2	30.4	iQ Street-Remote, D4i	5.4	5XE2H31Y08HB

ST1.0a: for normal main roads, ratio of light point height to road width 1:1 PL52: Field illumination, illuminated area in relation to the light point height: Width 5 / depth 2

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60mm	1 pc.	0.7	5XC10108XM1
Reducer, spigot size: 76 / 60 mm	1 pc.	0.1	5XC1008XR12
Reducer, spigot size: 76 / 42 mm	1 pc.	0.1	5XC1008XR14
Reducer, spigot size: 76 / 42 mm, additional inclination of 5° possible	1 pc.	0.1	5XC1008XR14A







## Streetlight SL 21 midi, Smart-Interface, mast luminaire























#### **Technical data**

Color temperature	3,000 K
Luminous flux	18,020     21,550 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 158 lm/W
Light control	Direct, asymmetric distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	iQ Street-Remote, D4i
Temperature range	-40 +50 °C

Rated service life	100,000 h (L97/B10) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S), seal can be replaced non-destructively, multi-stage sealing system
Recommended mounting height	6–14 m
Mounting	For post-top or side-entry mounting, inclination adjustable 0°, 5°, 10°, 15°
Spigot size	42/60/76 mm

K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Asymmetr	ic wide distribi	ution, ST1.0a, w	ith Smart-Inte	rface at top	and bottom			
3,000	≥ 70	18,340	129.3	141.6	55.6	iQ Street-Remote, D4i	7.2	5XE3D31Y08MB
3,000	≥ 70	21,550	136.6	143.6	61.4	iQ Street-Remote, D4i	7.2	5XE3D31Y08NB
Symmetric wide distribution, PL52, with Smart-Interface at top and bottom								
3,000	≥ 70	18,020	129.3	141.6	55.6	iQ Street-Remote, D4i	7.2	5XE3H31Y08MB

ST1.0a: for normal main roads, ratio of light point height to road width 1:1 PL52: Field illumination, illuminated area in relation to the light point height: Width 5 / depth 2

Accessories	PU	kg	Order no.
Mast flange, SITECO metallic gray (DB 702S), spigot size: 42 mm	1 pc.	0.5	5XC10008XM4
Mast flange, SITECO metallic gray (DB 702S), spigot size: 60 mm	1 pc.	0.6	5XC10008XM2
Mast flange, SITECO metallic gray (DB 702S), spigot size: 76 / 60mm	1 pc.	0.7	5XC10108XM1
Reducer, spigot size: 76 / 60 mm	1 pc.	0.1	5XC1008XR12
Reducer, spigot size: 76 / 42mm	1 pc.	0.1	5XC1008XR14
Reducer, spigot size: 76 / 42 mm, additional inclination of 5° possible	1 pc.	0.1	5XC1008XR14A

## Streetlight SL 31

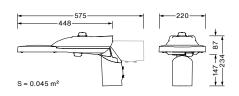
### Simply practical light - robust, cost-efficient and future-proof.

- · Low operating costs thanks to very high energy efficiency with luminous efficacy of up to 153 lm/W
- Long service life of more than 100,000 h thanks to the sustainable product concept and durable interchangeable components
- Future-proof thanks to optional Zhaga interfaces for state-of-the-art lighting control
- · Wireless networking and versatile sensor technology









## Streetlight SL 31 micro, Smart-Interface, mast luminaire















#### Technical data

Color temperature	3,000 K
Luminous flux	4,900 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 140 lm/W
Light control	Asymmetric wide distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	D4i
Temperature range	-40 +50 °C

Rated service life	100,000 h (L90) at AT = 25 °C
Electrical connection	Terminal, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S)
Recommended mounting height	3-6 m
Mounting	For post-top or side-entry mounting, inclination adjustable: 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, -15°, -20° (side entry)
Spigot size	42/60/76 mm

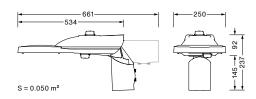
K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetr	ic wide distribution	on, ST1.0a, with Sm	art-Interface at t	op and bottom	,		'
3,000	≥ 70	4,900	35	140	D4i	3.6	5XF1E32T08DA

ST1.0a: for normal main roads, ratio of light point height to road width 1:1  $\,$ 

Accessories	PU	kg	Order no.
Reducer, spigot size: 76 / 42mm		0.1	5XC1008XR14A







## Streetlight SL 31 mini, Smart-Interface, mast luminaire

















#### **Technical data**

Color temperature	3,000 K
Luminous flux	8,400     11,200 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 140 lm/W
Light control	Asymmetric wide distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	D4i
Temperature range	-40 +50 °C

Rated service life	100,000 h (L90) at AT = 25 °C
Electrical connection	Terminal, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S)
Recommended mounting height	4-8 m
Mounting	For post-top or side-entry mounting, inclination adjustable: 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, -15°, -20° (side entry)
Spigot size	42 / 60 / 76 mm

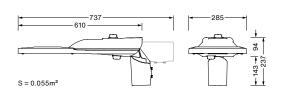
K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetr	ic wide distributi	on, ST1.0a, with Sm	art-Interface at t	op and bottom			
3,000	≥ 70	8,400	60	140	D4i	4.7	5XF2E32T08HA
3,000	≥ 70	11,200	80	140	D4i	5.8	5XF2E32T08JA
Symmetric	wide distribution	n, PL32, with Smart	-Interface at top	and bottom			
3,000	≥ 70	8,400	60	140	D4i	4.7	5XF2P32T08HA
3,000	≥ 70	11,200	90	124	D4i	5.8	5XF2P32T08JA

 $ST1.0a: for normal main roads, ratio of light point height to road width 1: 1\\ PL32: Field illumination, illuminated area in relation to the light point height: Width 3 / depth 2$ 

Accessories	PU	kg	Order no.
Reducer, spigot size: 76 / 42mm	1 pc.	0.1	5XC1008XR14A







## Streetlight SL 31 midi, Smart-Interface, mast luminaire

















#### **Technical data**

3,000 K
8,400     16,800 lm
CRI ≥ 70
up to 140 lm/W
Asymmetric wide distribution   lens made of PMMA
Toughened safety glass, clear
D4i
-40 +50 °C

Rated service life	100,000 h (L90) at AT = 25 °C
Electrical connection	Terminal, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S)
Recommended mounting height	6–10 m
Mounting	For post-top or side-entry mounting, inclination adjustable: 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, -15°, -20° (side entry)
Spigot size	42/60/76 mm

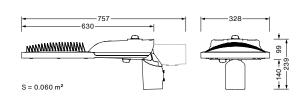
5XF3E32T08MA
Į

ST1.0a: for normal main roads, ratio of light point height to road width 1:1 PL32: Field illumination, illuminated area in relation to the light point height: Width 3 / depth 2

Accessories	PU	kg	Order no.
Reducer, spigot size: 76 / 42mm	1 pc.	0.1	5XC1008XR14A







## Streetlight SL 31 maxi, Smart-Interface, mast luminaire

















#### **Technical data**

Color temperature	3,000 K
Luminous flux	28,000 lm
Color rendering index	CRI ≥ 70
Luminous efficacy	up to 140 lm/W
Light control	Asymmetric wide distribution   lens made of PMMA
Cover	Toughened safety glass, clear
Control	D4i
Temperature range	-40 +50 °C

Rated service life	100,000 h (L90) at AT = 25 °C
Electrical connection	Terminal, max. 2.5 mm²
Housing	Die-cast aluminum, powder-coated, SITECO metallic gray (DB 702S)
Recommended mounting height	10-14 m
Mounting	For post-top or side-entry mounting, inclination adjustable: 0°, 5°, 10°, 15° (post top)   0°, -5°, -10°, -15°, -20° (side entry)
Spigot size	42 / 60 / 76 mm

K	CRI	lm	w	lm/W	Control	kg	Order no.
Asymmetri	ic wide distributio	on, ST1.0a, with Sma	art-Interface at to	p and bottom			
3,000	≥ 70	28,000	200	140	D4i	8.5	5XF4E32T08QA
Symmetric 3.000	wide distribution ≥ 70	28,000	Interface at top a	and bottom	D4i	8.5	5XF4P32T08QA

ST1.0a: for normal main roads, ratio of light point height to road width 1:1 PL32: Field illumination, illuminated area in relation to the light point height: Width 3 / depth 2

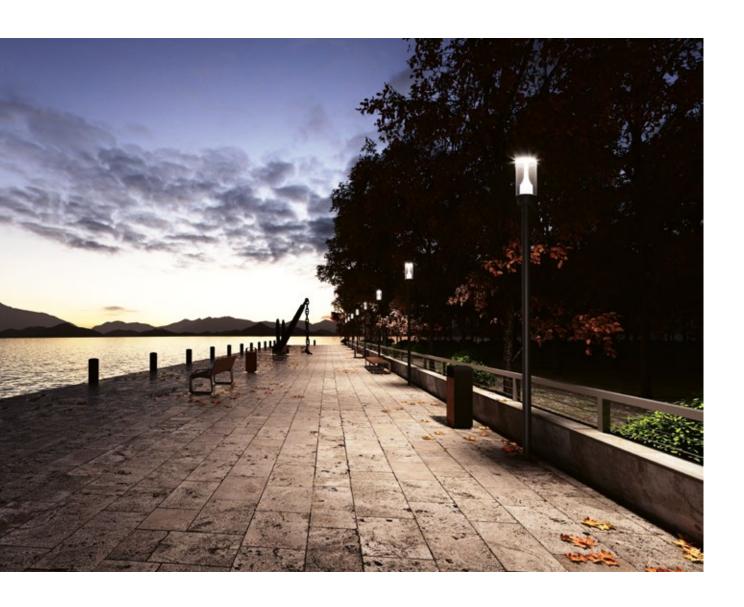
Accessories	PU	kg	Order no.
Reducer, spigot size: 76 / 42mm	1 pc.	0.1	5XC1008XR14A



## Litepole iQ

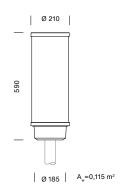
#### The flexible and modular future of city lighting.

- Easy installation and low maintenance due to future-oriented modular design for exchangeable LED module and gear tray
- Luminous module body as a visual guidance element with decorative day/night time effect
- Low energy consumption due to high luminous efficacy of up to 161 lm/W and avoidance of overplanning due to patented CLO 2.0 luminous flux tracking
- High visual comfort due to uniform illumination and excellent glare control this can be further enhanced with a spreader element
- SITECO iQ luminaire electronics enable state-of-the-art lighting control, wireless networking, versatile sensor technology and comprehensive control and diagnostic options









## Litepole iQ



















#### Technical data

Color temperature	3,000 K   4,000 K	Electrical connection	Terminal, 6-pin, max. 2.5 mm²		
Luminous flux	1,540 lm     2,970 lm	Housing	Upper part of luminaire housing made of		
Color rendering index	CRI ≥ 70		polyester, glass fiber reinforced, coate SITECO metallic gray (DB 702S), mas		
Luminous efficacy	up to 161 lm/W		mounting element made of die-cast		
Light control	Direct, asymmetric wide distribution   symmetric wide distribution   3-zone faceted reflector, plastic, silver coated,		aluminum, coated, SITECO metallic gray (DB 702S), Module 540 iQ, traffic white (RAL 9016)		
	high gloss	Recommended	3-5 m		
Cover	PMMA, clear	mounting height			
Control	iQ Street-Remote, D4i	Mounting	For post-top mounting		
Temperature range	- 30 + 50 °C	Spigot size	$d \times I = 76 \times 70 \text{ mm}$   with reducer		
Rated service life	100,000 h at AT = 25 °C	·	(optional accessory) 60 × 70 mm		

Κ	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Direct, asy	mmetric wide o	listribution, ST1	.2a					
3,000	≥ 70	1,540	11	11	5	iQ Street-Remote	5.9	5XA5415EF14H
4,000	≥ 70	1,540	10	10	5	iQ Street-Remote	5.9	5XA5415KF14H
Direct, syn	nmetric wide di	stribution, PL1.2	!s					
3,000	≥ 70	2,970	19	21	10	iQ Street-Remote	5.9	5XA5415JF14H
4,000	≥ 70	2,970	19	20	9	iQ Street-Remote	5.9	5XA5415RF14H

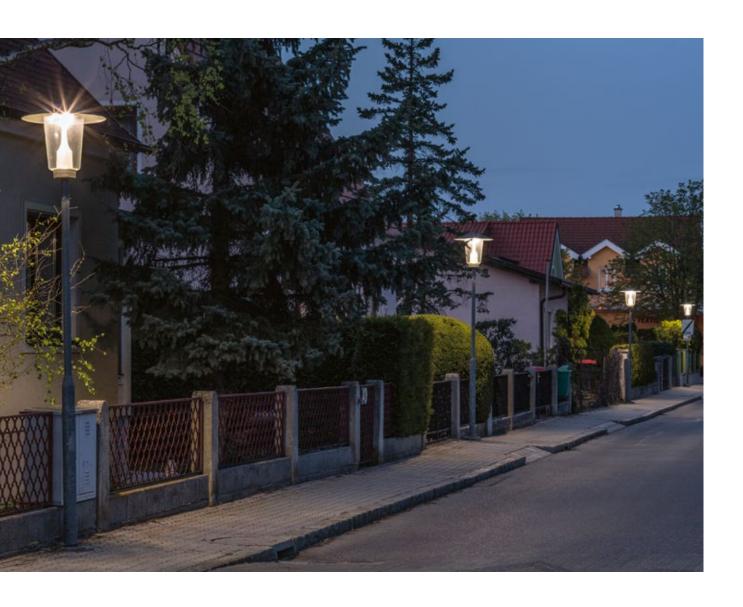
ST1.2a: for wide main roads, ratio of light point height to road width 1: 1.2 PL1.2s: Field illumination, illuminated area in relation to the light point height: 1: 1.2

Accessories	PU	kg	Order no.
Spreader element	2 pc.	0.2	5XA54000XS
Spreader element, amber	2 pc.	0.2	5XA54000XSA
Shielding on building side, H = 150 mm	1 pc.	0.1	5XA54000XBS
Shielding on building side, H = 200 mm	1 pc.	0.1	5XA54000XBL
Decorative ring, silver	1 pc.	0.2	5XA54001XS
Reducer, spigot size: 76 / 60mm	1 pc.	0.1	5LA52201XR

## Mushroom Iuminaire iQ

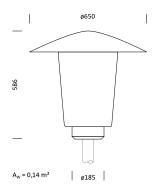
### Classic on the outside, revolutionary on the inside.

- SITECO iQ luminaire electronics enable state-of-the-art lighting control, wireless networking, versatile sensor technology and comprehensive control and diagnostic options
- Easy installation and low maintenance due to future-oriented modular design for exchangeable LED module and gear tray
- · Luminous module body as a visual guidance element with decorative day/night time effect
- Low energy consumption due to high luminous efficacy of up to 162lm/W and avoidance of overplanning due to patented CLO 2.0 luminous flux tracking
- High visual comfort due to uniform illumination and excellent glare control this can be further enhanced with a spreader element









7

5XA5235RF14H

iQ Street-Remote, D4i

#### Mushroom luminaire iQ



4,000

















#### **Technical data**

3,000 K   4,000 K	Housing	Upper part of luminaire housing made of polyester, glass fiber reinforced, coated SITECO metallic gray (DB 702S), mast		
1,550   3,000 lm				
CRI ≥ 70		mounting element made of die-cast		
up to 162 lm/W		aluminum, coated, SITECO metallic gray		
Direct, asymmetric wide distribution		(DB 702S), Module 540 iQ, traffic white (RAL 9016)		
faceted reflector, plastic, silver coated, high gloss	Recommended mounting height	3–5 m		
PMMA, clear	Mounting	For post-top mounting		
iQ Street-Remote, D4i	Spigot size	$d \times I = 76 \times 70 \text{ mm}$   with reducer		
-30 +50 °C		(optional accessory) 60 × 70 mm		
100,000 h at AT = 25 °C	Control: Overheating protect	ction, electronic power reduction, digital communication		
Terminal, 6-pin, max. 2.5 mm²	interface, time-dependent luminous flux control, flexible parameterization flux, optimized constant luminous flux control			
	1,550   3,000 lm  CRI ≥ 70  up to 162 lm/W  Direct, asymmetric wide distribution   symmetric wide distribution   3-zone faceted reflector, plastic, silver coated, high gloss  PMMA, clear iQ Street-Remote, D4i  -30 +50 °C  100,000 h at AT = 25 °C	1,550   3,000 lm  CRI ≥ 70  up to 162 lm/W  Direct, asymmetric wide distribution   symmetric wide distribution   3-zone faceted reflector, plastic, silver coated, high gloss  PMMA, clear  iQ Street-Remote, D4i  -30 +50 °C  100,000 h at AT = 25 °C  Terminal 6-pin max 2.5 mm²  Recommended mounting height  Mounting  Spigot size  Control: Overheating protectinterface, time-dependent interface, time-dependent		

CRI W-start W-end W-red Control kg Order no. Direct, asymmetric wide distribution, ST1.2a 3,000 ≥ 70 1,550 11 11 5 iQ Street-Remote, D4i 7 5XA5235EF14H 4,000 ≥ 70 1,550 10 10 5 iQ Street-Remote, D4i 5XA5235KF14H Direct, symmetric wide distribution, PL1.2s 21 7 3,000 ≥ 70 3,000 19 10 iQ Street-Remote, D4i 5XA5235JF14H

9

20

ST1.2a: for wide main roads, ratio of light point height to road width 1: 1.2 PL1.2s: Field illumination, illuminated area in relation to the light point height: 1: 1.2

≥ 70

3,000

19

Accessories	PU	kg	Order no.
Spreader element	2 pc.	0.2	5XA54000XS
Spreader element, amber	2 pc.	0.2	5XA54000XSA
Shielding on building side, H = 150 mm	1 pc.	0.1	5XA54000XBS
Shielding on building side, H = 200 mm	1 pc.	0.1	5XA54000XBL
Decorative ring, silver	1 pc.	0.2	5XA54001XS
Reducer, spigot size: 76 / 60mm	1 pc.	0.1	5LA52201XR







#### Module 540 iQ















#### **Technical data**

Color temperature	2,200    4,000 K			
Luminous flux	1,590   3,110 lm			
Color rendering index	CRI ≥ 70			
Luminous efficacy	up to 168 lm/W			
Light control	Direct, asymmetric wide distribution   highly asymmetric extremely wide distribution   symmetric wide distribution   3-zone faceted reflector, plastic, silver coated, high gloss			

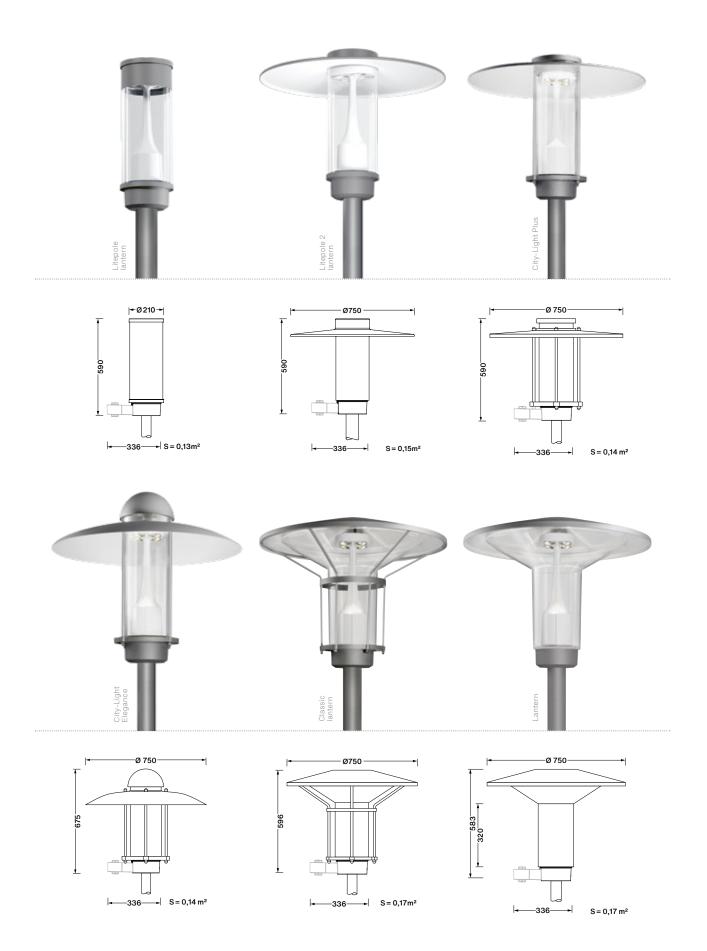
Control	iQ Street-Remote
Temperature range	-30 +50 °C
Rated service life	100,000 h at AT = 25 °C
Electrical connection	Terminal, 6-pin, max. 2.5 mm²
Housing	Device support, traffic white (RAL 9016)

K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
asymmetr	ic wide distribu	ıtion, ST1.2a						
2,200	≥ 70	1,610	13	13	6	iQ Street-Remote	2.7	5XA5405AF04F
3,000	≥ 70	1,610	11	11	5	iQ Street-Remote	2.7	5XA5405EF04F
4,000	≥ 70	1,610	10	10	5	iQ Street-Remote	2.7	5XA5405KF04F
Highly asy	mmetric extre	mely wide distr	ibution, P1.0a					
2,200	≥ 70	1,590	13	13	6	iQ Street-Remote	2.7	5XA5405BF04F
3,000	≥ 70	1,590	11	11	5	iQ Street-Remote	2.7	5XA5405FF04F
4,000	≥ 70	1,590	10	10	5	iQ Street-Remote	2.7	5XA5405LF04F
Symmetric	wide distribut	ion, PL1.2s						
2,200	≥ 70	3,110	24	26	11	iQ Street-Remote	2.7	5XA5405CF04F
3,000	≥ 70	3,110	19	21	10	iQ Street-Remote	2.7	5XA5405JF04F
4,000	≥ 70	3,110	19	19	9	iQ Street-Remote	2.7	5XA5405RF04F

ST1.2a: for wide main roads, ratio of light point height to road width 1:1.2 P1.0a: for narrow roads and paths, extremely wide distribution, ratio of light point height to road width 1:1 PL1.2s: Field illumination, illuminated area in relation to the light point height: 1:1.2

Accessories	PU	kg	Order no.
Spreader element	2 pc.	0.2	5XA54000XS
Spreader element, amber	2 pc.	0.2	5XA54000XSA
Shielding on building side, H = 150 mm	1 pc.	0.1	5XA54000XBS
Shielding on building side. H = 200 mm	1 pc.	0.1	5XA54000XBL

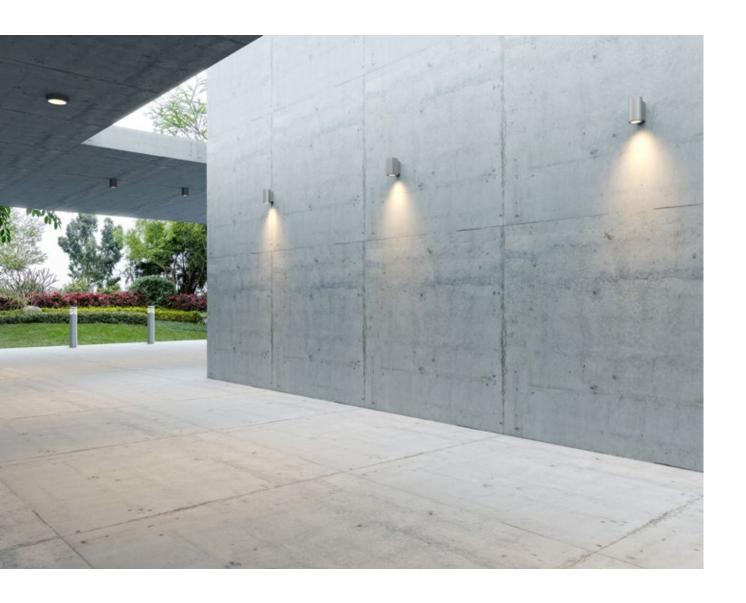
#### Luminaire designs for Module 540



# CL 31

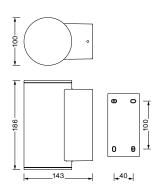
#### Building vicinity light for mood, style and safety.

- · Attractive façade and pathway lighting with purist design
- Ideal for prestigious entrance areas and façades of hotels, office, residential and industrial buildings or the retail sector
- · Professional quality of light creates safety and maximum visual comfort
- · Clever installation details ensure easiest possible mounting
- · High quality components enable long, maintenance-free operation
- Designed for service life > 20 years









#### CL 31 Wall, round













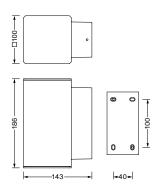
Color temperature	3,000 K
Luminous flux	up to 2×300 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 110 lm/W
Beam angle	Symmetric medium distribution, 36° depending on version with light emission on one or two sides
Cover	Glass, clear

Control	DALI		
Temperature range	−20 +50 °C		
Rated service life	65,000 h (L80/B50) at AT = 25 °C		
Electrical connection	Terminal, 5-pin, max. 2.5 mm²		
Housing	Aluminum, powder-coated, SITECO metallic gray		
Mounting	Wall-mounted   flexible mounting: Unevenness and imprecise screw-on points can be compensated for easily		

CRI	lm	W	lm/W	Control	kg	Order no.
edium direct distri	ibution, 36°	'			"	
≥ 80	1×300	2.8	106	DALI	1.7	5CL513613
edium direct / indi	rect distribution, 36	0				
≥ 80	2×300	5.5	110	DALI	1.8	5CL513623
	≥ 80	edium direct / indirect distribution, 36	≥ 80 1×300 2.8  edium direct / indirect distribution, 36°	≥ 80 $1 \times 300$ 2.8 106  edium direct / indirect distribution, 36°	≥ 80 1×300 2.8 106 DALI  edium direct / indirect distribution, 36°	edium direct distribution, $36^{\circ}$ $\geq 80 \qquad 1 \times 300 \qquad 2.8 \qquad 106 \qquad \text{DALI} \qquad 1.7$ edium direct / indirect distribution, $36^{\circ}$







#### CL 31 Wall, square











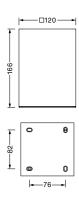
Color temperature	3,000 K
Luminous flux	up to 2 × 300 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 110 lm/W
Beam angle	Symmetric medium distribution, 36° depending on version with light emission on one or two sides
Cover	Glass, clear

Control	DALI
Temperature range	-20 +50 °C
Rated service life	65,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, powder-coated, SITECO metallic gray
Mounting	Wall-mounted   flexible mounting: Unevenness and imprecise screw-on points can be compensated for easily

K	CRI	lm	W	lm/W	Control	kg	Order no.
Symmetric m	edium direct distr	ibution, 36°			"		
3,000	≥ 80	1×300	2.8	106	DALI	2.1	5CL553613
Symmetric m	edium direct / ind	irect distribution, 36	6°			'	
3,000	≥ 80	2×300	5.5	110	DALI	2.2	5CL563623







#### CL 31 Wall, square











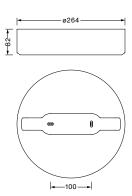
Color temperature	3,000 K
Luminous flux	1,500 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	100 lm/W
Beam angle	Symmetric medium distribution, 36°
Cover	Glass, clear

Control	DALI
Temperature range	−20 +50 °C
Rated service life	65,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, powder-coated, SITECO metallic gray
Mounting	Ceiling surface-mounting

K	CRI	lm	w	lm/W	Control	kg	Order no.
3,000	≥ 80	1,500	15	100	DALI	2.0	5CL613603







#### CL 31 Bulkhead, round











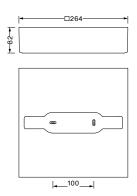
Color temperature	3,000 K
Luminous flux	1,575 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	105 lm/W
Beam angle	Diffuse distribution
Cover	PC

Control	DALI
Temperature range	-20 +50 °C
Rated service life	60,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, powder-coated, SITECO metallic gray
Mounting	Wall-mounted   Ceiling-mounted

K	CRI	lm	w	lm/W	Control	kg	Order no.
3,000	≥ 80	1,575	15	105	DALI	2.0	5CL721603







#### CL 31 Bulkhead, square











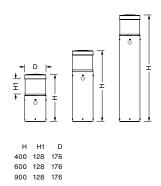
Color temperature	3,000 K
Luminous flux	1,575 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	105 lm/W
Beam angle	Diffuse distribution
Cover	PC

Control	DALI
Temperature range	−20 +50 °C
Rated service life	60,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, powder-coated, SITECO metallic gray
Mounting	Wall-mounted   Ceiling-mounted

K	CRI	lm	w	lm/W	Control	kg	Order no.
3,000	≥ 80	1,575	15	105	DALI	2.2	5CL761603







#### **CL 31 Bollard**













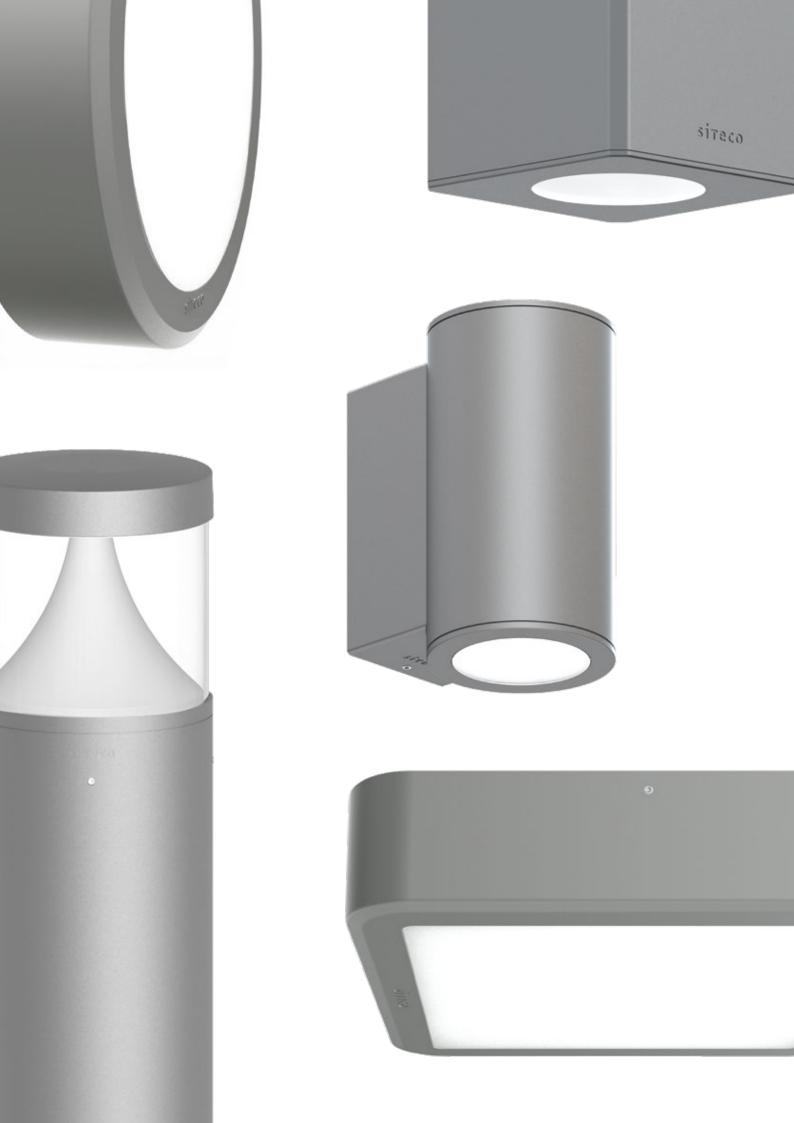


Color temperature	3,000 K
Luminous flux	800     1,500 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	Up to 110 lm/W
Beam angle	Asymmetric extremely wide distribution
Cover	PC, clear
Control	DALI

Temperature range	-20 +50 °C
Rated service life	100,000 h (L80/B50) at AT = 25 °C
Electrical connection	Terminal, 5-pin, max. 2.5 mm²
Housing	Aluminum, powder-coated, SITECO metallic gray
Mounting	Floor-mounted with the option of precision adjustment of the beam direction by ±30°

K	CRI	lm	w	lm/W	Control	<b>H</b> mm	kg	Order no.
Asymmetric	extremely wide	distribution (IK1	0)			'		
3,000	≥ 80	800	7.2	110	DALI	400	4.1	5CL424603
3,000	≥ 80	1,500	14	107	DALI	600	5.3	5CL434603
3,000	≥ 80	1,500	14	107	DALI	900	7.0	5CL444603
Asymmetric	extremely wide	distribution, PIR	sensor (IK08	)				
3,000	≥ 80	800	7.2	110	DALI	400	4.2	5CL424803
3,000	≥ 80	1,500	14	107	DALI	600	5.4	5CL434803
3.000	≥ 80	1.500	14	107	DALI	900	7.1	5CL444803

Accessories	PU	kg	Order no.
Planted section for 400 mm and 600 mm bollards, steel, galvanized, cylindrical, length 250 mm	1 pc.	1.6	5AA40007X
Planted section for 900 mm bollards, steel, galvanized, cylindrical, length 500 mm	1 pc.	2.5	5AA40006X



# Planea

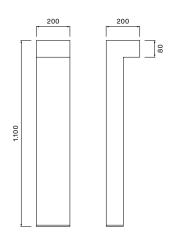
# Bollards and mast luminaires with flexible lighting technology from a single source.

- For lighting streets and squares as well as for access routes, footpaths and cycle paths in a uniform design language
- Energy-efficient with low-glare light and high brightness
- Environmentally friendly and insect-friendly thanks to warm color temperatures, dimmability and avoidance of unnecessary light spill
- Long service life of 100,000 h, high color rendering CRI  $\geq$  80
- Meets the lighting requirements of a wide range of applications with a variety of different light distributions and optional color temperatures
- Planea M and Planea L available on request with Smart-Interface for SITECO Connect plugs and sensors or telemetry systems









#### Planea P, bollard luminaire















#### **Technical data**

Toommour data					
Color temperature 3,000 K		Electrical connection	Incl. cable junction box, 5-pin,		
Luminous flux	452     514 lm		max. 10 mm <sup>2</sup> , pre-assembled luminaire connection cable		
Color rendering index	CRI ≥ 80	Housing	Aluminum, wet-painted, anthracite		
Luminous efficacy up to 80 lm/W		nousing	(DB 703S), non-destructive seal		
Light control	Direct, asymmetric wide and narrow		replacement, multi-stage sealing system		
	beam distribution   frosted PMMA lenses	Recommended	1.1 m  Please order supporting column sepa-		
Cover	PMMA, clear	mounting height			
Control	DALI 2, AstroDim	Mounting			
Temperature range −25 +50 °C			rately. Rectangular system mast, incl.		
Rated service life	100,000 h at AT = 25 °C		(for sleeve foundation) included in scope of delivery		
			stainless steel planted section (for sleeve foundation) include		

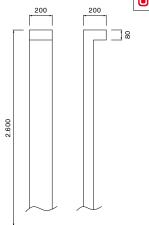
Κ	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Light head	, asymmetric v	vide distributio	on, STO.8a				·	
3,000	≥ 80	510	6	8	4	DALI 2, AstroDim	5.2	5BS0031C3B09P
Light head	, asymmetric s	trip-shaped, S	ST0.5a					
3,000	≥ 80	465	6	8	4	DALI 2, AstroDim	5.2	5BS0031B3B09P
Light head	, asymmetric v	vide distributio	on, ST1.2a					
3,000	≥ 80	514	6	8	4	DALI 2, AstroDim	5.2	5BS0031A3B09P
Light head	, asymmetric n	arrow beam d	istribution, PL6	4				
3,000	≥ 80	452	6	8	4	DALI 2, AstroDim	5.2	5BS0031E3B09P

ST0.5a: for normal main roads, ratio of light point height to road width 1:0.5 ST0.8a: for normal main roads, ratio of light point height to road width 1:0.8 ST1.2a: for normal main roads, ratio of light point height to road width 1:1.2 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

Accessories	PU	kg	Order no.
Supporting column for Planea P, supporting column incl. planted section 1,100 mm	1 pc.	8.0	5BM007111AA09







#### Planea M, mast luminaire















#### **Technical data**

Color temperature	3,000 K
Luminous flux	633     720 lm
Color rendering index	CRI ≥ 80
Luminous efficacy	up to 70 lm/W
Light control	Direct, asymmetric wide and narrow beam distribution   frosted PMMA lenses
Cover	PMMA, clear
Control	DALI 2, AstroDim
Temperature range	-25 +50 °C
Rated service life	100,000 h at AT = 25 °C

Electrical connection	Incl. cable junction box, 5-pin, max. 10 mm <sup>2</sup> , pre-assembled luminaire connection cable
Housing	Aluminum, wet-painted, anthracite (DB 703S), non-destructive seal replacement, multi-stage sealing system
Recommended mounting height	2.6 m
Mounting	Please order supporting column sepa- rately. Rectangular system mast, incl. stainless steel planted section (for sleeve foundation) included in scope of delivery

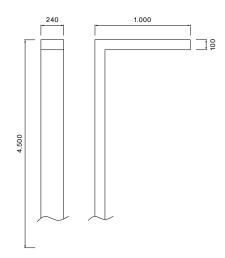
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Light head	, asymmetric v	vide distribution	on, STO.8a					
3,000	≥ 80	714	11	14	7	DALI 2, AstroDim	5.2	5BS0031C3B09S
Light head	, asymmetric s	trip-shaped, S	ST0.5a					
3,000	≥ 80	651	11	14	7	DALI 2, AstroDim	5.2	5BS0031B3B09S
Light head	, asymmetric v	vide distribution	on, ST1.2a					
3,000	≥ 80	720	11	14	7	DALI 2, AstroDim	5.2	5BS0031A3B09S
Light head	, asymmetric r	arrow beam d	istribution, PL6	4				
3,000	≥ 80	633	11	14	7	DALI 2, AstroDim	5.2	5BS0031E3B09S

ST0.5a: for normal main roads, ratio of light point height to road width 1:0.5 ST0.8a: for normal main roads, ratio of light point height to road width 1:0.8 ST1.2a: for normal main roads, ratio of light point height to road width 1:1.2 PL64: Field illumination, illuminated area in relation to the light point height: Width 6/ depth 4

Accessories	PU	kg	Order no.
Supporting column for Planea M, supporting column incl. planted section + mast doors 2,600 mm	1 pc.	19.0	5BM007261AA09







#### Planea L, mast luminaire















#### **Technical data**

Color temperature 3,000 K		Incl. cable junction box, 5-pin,		
2,953     3,329 lm		max. 10 mm <sup>2</sup> , pre-assembled luminaire connection cable		
CRI ≥ 80		Aluminum, wet-painted, anthracite		
uminous efficacy up to 100 lm/W		(DB 703S), non-destructive seal		
Direct, asymmetric wide and narrow		replacement, multi-stage sealing system		
beam distribution   frosted PMMA lenses	Recommended	4.5 m		
PMMA, clear	mounting height			
DALI 2, AstroDim	Mounting	Please order supporting column sepa-		
Temperature range −25 +50 °C		rately. Rectangular system mast, incl. stainless steel planted section		
100,000 h at AT = 25 °C		(for sleeve foundation) included in scope of delivery		
	2,953     3,329 lm  CRI ≥ 80  up to 100 lm/W  Direct, asymmetric wide and narrow beam distribution   frosted PMMA lenses  PMMA, clear  DALI 2, AstroDim  -25 +50 °C	2,953     3,329 lm  CRI ≥ 80  up to 100 lm/W  Direct, asymmetric wide and narrow beam distribution   frosted PMMA lenses  PMMA, clear  DALI 2, AstroDim  -25 +50 °C  Housing  Housing  Recommended mounting height  Mounting		

K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Light head	, asymmetric v	vide distributio	n, ST0.8a					
3,000	≥ 80	3,329	28	35	18	DALI 2, AstroDim	5.2	5BA0021C3B09S
Light head	, asymmetric s	trip-shaped, S	T0.5a					
3,000	≥ 80	2,953	28	35	18	DALI 2, AstroDim	5.2	5BA0021B3B09S
Light head	, asymmetric v	vide distributio	n, ST1.2a					
3,000	≥ 80	3,327	28	35	18	DALI 2, AstroDim	5.2	5BA0021A3B09S
Light head	, asymmetric n	arrow beam di	stribution, PL6	4				
3,000	≥ 80	3,045	28	35	18	DALI 2, AstroDim	5.2	5BA0021E3B09S

ST0.5a: for normal main roads, ratio of light point height to road width 1:0.5 ST0.8a: for normal main roads, ratio of light point height to road width 1:0.8 ST1.2a: for normal main roads, ratio of light point height to road width 1:1.2 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

Accessories	PU	kg	Order no.
Supporting column for Planea L, supporting column incl. planted section + mast doors, 4,500 mm	1 pc.	32.0	5BM008451AA09

# Canna 200

# Timeless elegance of Bergmeister luminaires: The Canna light pillar.

- · For prestigious lighting of streets, paths and squares
- · Sleek, minimalist design that blends seamlessly into any environment
- Long service life of 100,000 h, high color rendering CRI ≥ 80
- Meets the lighting requirements of a wide range of applications thanks to a variety of different light distributions and optional color temperatures
- · Adjustable light intensity that can be perfectly adapted to any mood or task
- · On request with Smart-Interface for SITECO Connect Plugs







# 900 4.500

#### Canna 200, light pillar













#### Technical data

recillical data					
Color temperature 3,000 K		Electrical connection	Incl. cable junction box, 5-pin,		
Luminous flux	1,580     1,897 lm		max. 10 mm <sup>2</sup> , pre-assembled luminaire connection cable		
Color rendering index	CRI ≥ 80	Housing	Aluminum, wet-painted, anthracite		
Luminous efficacy up to 110 lm/W		Ū	(DB 703S), non-destructive seal		
Light control	Direct, asymmetric wide and narrow		replacement, multi-stage sealing syster		
beam distribution   frosted PMMA lenses		Recommended	4.5 m		
Cover	PMMA, clear	mounting height			
Control	DALI 2, AstroDim	Mounting	Please order supporting column separately. Round system mast, incl.		
Temperature range −25 +50 °C			stainless steel planted section		
Rated service life	100,000 h at AT = 25 °C		(for sleeve foundation) included in the scope of delivery		

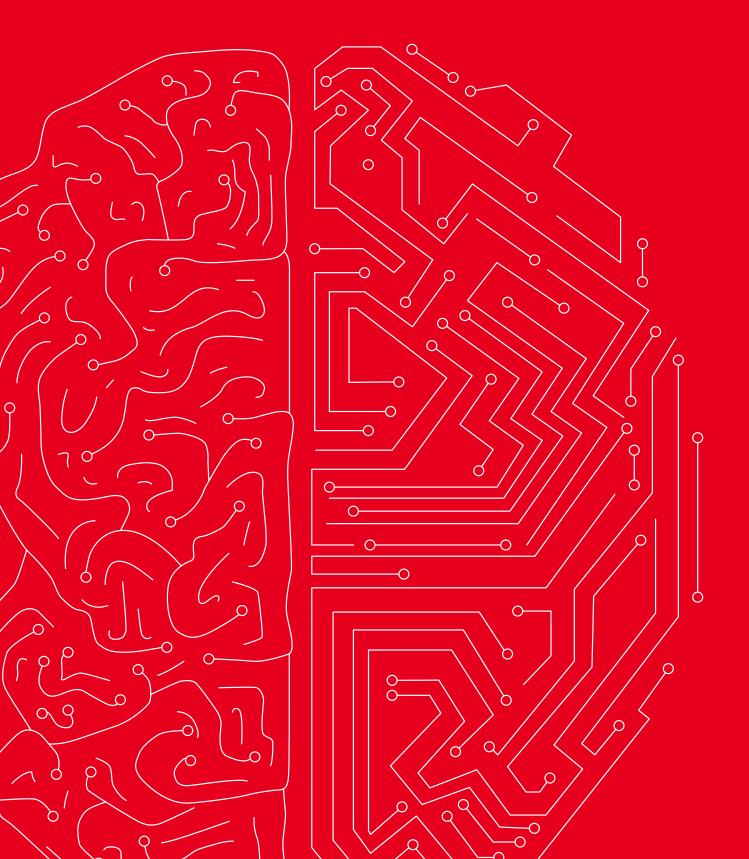
K	CRI	lm	W-start	W-end	W-red	Control	kg	Order no.
Light head	, asymmetric v	vide distributio	n, ST0.8a		'			
3,000	≥ 80	1,897	15	19	9	DALI 2, AstroDim	10.3	5BS0021C3B09S
Light head	, asymmetric s	trip-shaped, S	T0.5a					
3,000	≥ 80	1,580	15	19	9	DALI 2, AstroDim	10.3	5BS0021B3B09S
Light head	, asymmetric v	vide distributio	n, ST1.2a					
3,000	≥ 80	1,827	15	19	9	DALI 2, AstroDim	10.3	5BS0021A3B09S
Light head	, asymmetric r	arrow beam di	stribution, PL6	4				
3,000	≥ 80	1,655	15	19	9	DALI 2, AstroDim	10.3	5BS0021E3B09S
Light head	, symmetric wi	de distribution						
3,000	≥ 80	1,859	15	19	9	DALI 2, AstroDim	10.3	5BS0021X3B09S

Accessories PU kg Order no. Supporting column for Canna 200 pillar, supporting column incl. planted section + mast doors 4,500 mm 1 pc. 35.2 5BM004451AA09A

ST0.5a: for normal main roads, ratio of light point height to road width 1: 0.5 ST0.8a: for normal main roads, ratio of light point height to road width 1: 0.8 ST1.2a: for normal main roads, ratio of light point height to road width 1: 1.2 PL64: Field illumination, illuminated area in relation to the light point height: Width 6 / depth 4

**Control for outdoor luminaires** 

→ Page 204



# Light management systems



# SITECO Connect Indoor

From simple plug & play control to an integrated building management system – SITECO Connect gives you perfectly customized solutions.





# Local control

#### **Ancillary areas**

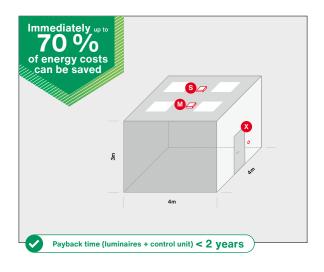


#### **Functions**

- Motion- and daylight-dependent control
- Fully automatic operation

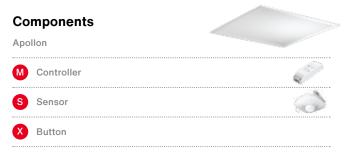


#### Single office / meeting room



#### **Functions**

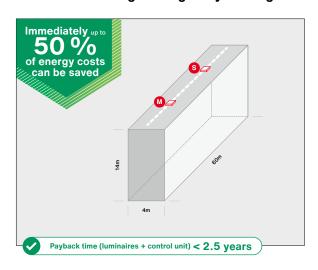
- Presence and motion-dependent control
- Daylight control
- Semi-automatic operation
- Manual control by the user



Acce	essories	PU	kg	Order no.
M	SITECO Connect 31 Office, controller	1 pc.	0.1	5LZ935100A
	SITECO Connect 31 Office, cable anchoring covers for controllers	1 pc.	0.1	5LZ935400A
S	SITECO Connect 31 Office, sensor	1 pc.	0.1	5LZ935202A
	SITECO Connect 31 Office, optional sensor surface-mounted housing	1 pc.	0.1	5LZ935401A
X	Push-button provided on-site			



#### Shelf warehousing and high-bay racking mh = 4 m ... 14 m



#### **Functions**

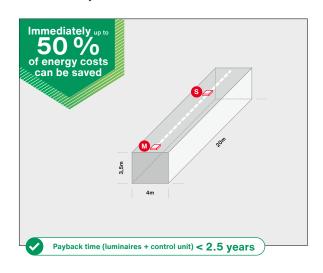
- Motion- and daylight-dependent control
- Fully automatic operation
- Inventory function

#### Components

Licross or Modario: DALI luminaire insert + trunking rail with DALI through-wiring



#### Storeroom, corridor mh = 2 m ... 4 m



#### **Functions**

- Motion- and daylight-dependent control
- Fully automatic operation
- · Inventory function

#### Components

Licross or Modario: DALI luminaire insert



Accessories		PU	kg	Order no.
M	External Interface MD	1 pc.	0.1	59US1FCMA
M	Licross 11 / 21 Interface MD	1 pc.	0.5	56TL1FCMA
M	Modario 31 Interface MD	1 pc.	0.5	5TR305FCMA
И	Sensor Head PR1-M (storeroom/corridor)	1 pc.	0.1	59US1HXMPR1A
VI	Sensor head PR2-M (shelf warehousing and high bay racking)	1 pc.	0.1	59US1HXMPR2A
	External Interface S	1 pc.	0.1	59US1FCSA
3	Licross 11 / 21 Interface S	1 pc.	0.5	56TL1FCSA
	Modario 31 Interface S	1 pc.	0.5	5TR305FCSA
S	Sensor Head PR1-S (storeroom/corridor)	1 pc.	0.1	59US1HXSPR1A
S	Sensor head PR2-S (shelf warehousing and high bay racking)	1 pc.	0.1	59US1HXSPR2A
	Smart Remote	1 pc.	0.1	59UC3RCA



#### Dispatch area mh = 2 m ... 4 m



#### **Dispatch area** mh = 5 m ... 14 m



All application solutions shown are also available as central control or control

#### **Functions**

- · Motion- and daylight-dependent control
- Fully automatic operation
- Inventory function

#### Components

Licross or Modario: DALI luminaire insert + trunking rail with DALI through-wiring



#### **Functions**

- Motion- and daylight-dependent control
- Fully automatic operation
- Inventory function

#### Components

Licross or Modario: DALI luminaire insert

+ trunking rail with DALI through-wiring



Acc	essories	PU	kg	Order no.
M	External Interface MD	1 pc.	0.1	59US1FCMA
M	Licross 11 / 21 Interface MD	1 pc.	0.5	56TL1FCMA
M	Modario 31 Interface MD	1 pc.	0.5	5TR305FCMA
M	Sensor Head PC1-M (dispatch area 2 4 m)	1 pc.	0.1	59US1HXMPC1A
M	Sensor Head PC5-M	1 pc.	0.1	59US1HXMPC5A
S	External Interface S	1 pc.	0.1	59US1FCSA
S	Licross 11 / 21 Interface S	1 pc.	0.5	56TL1FCSA
S	Modario 31 Interface S	1 pc.	0.5	5TR305FCSA
S	Sensor Head PC1-S (dispatch area 2 4 m)	1 pc.	0.1	59US1HXSPC1A
S	Sensor Head PC5-S (dispatch area 5 14 m)	1 pc.	0.1	59US1HXSPC5A
R	Licross repeater including 14-pin Licross trunking rail*	1 pc.	0.5	56TL1CRM0B
R	Repeater for luminaire installation including 10-pin Modario trunking rail**	1 pc.	0.5	5LZ980302
	Smart Remote	1 pc.	0.1	59UC3RCA

<sup>&</sup>lt;sup>1</sup> Maximally combinable per master: 21 DALI luminaires, three slave sensors <sup>2</sup> Cascading; maximally combinable per repeater: 64 DALI luminaires

<sup>(</sup>broadcast), number of repeaters depending on floor space

<sup>\*</sup> DALI line for luminaires: Cores 9 + 11; DALI line for repeater: Cores 8 + 10
\*\* DALI line for luminaires: Cores 5 + 7; DALI line for repeater: Cores 4 + 6



# Outdoor lighting with an exceptional iQ.

SITECO outdoor luminaires are intelligent. Powerful, integrated functions facilitate setting, dimming and control. We're sharing our compelling technology to inspire you to take this quantum leap. Lead your city, your community and your company into the future. Intelligent, interactive, intuitive, integrative. This is our SITECO iQ formula.

# Maximum convenience and still fit for the future – do your iQ check now.

## Replace ECG – faster than in Formula 1.

When the ECG learns on its own, replacement takes 2 minutes, not 2 hours.

And the complexity around spare parts plummets.

#### Install on the fly.

Program new luminaires?
Really easy to do in the warehouse with no tedious unpacking. Or conveniently on the street after installation – without needing a cherry picker.

## Future proof for beyond tomorrow.

Light has to satisfy many masters:
environmental and insect protection, traffic,
residents. Plus the additional standards on
top. With lighting you simply adjust the light
color, distribution, dimming and luminous
flux. We offer a 20-year delivery
guarantee. Everything can be
exchanged and recycled.

## Sit back and relax! The autopilot's engaged.

Your luminaire can do a lot by itself:
Nighttime reduction, temperature monitoring,
weather-dependent light distribution and
switch-on surge interruption –
all the important daily tasks.





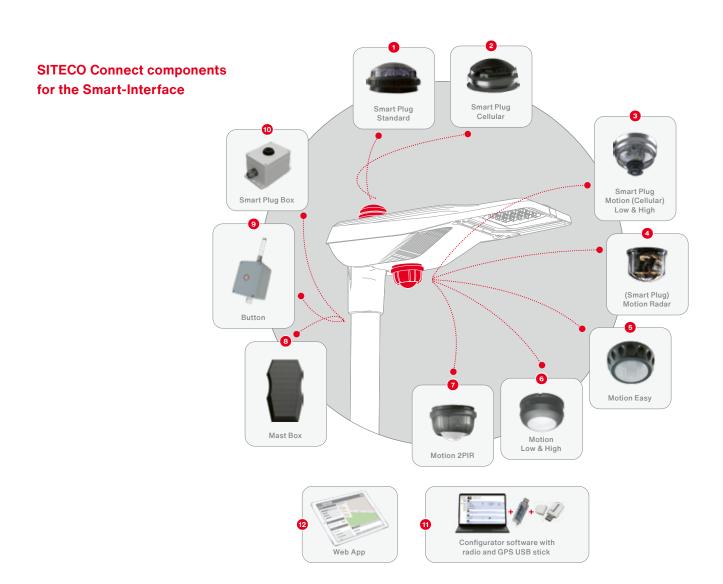


### **SITECO Connect Wireless**

SITECO outdoor luminaires offer standard connectivity for all control requirements thanks to Smart-Interface. For example, they allow plug & play integration of sensors or help you to manage your power consumption and reduce costs with radio-based control solutions and demand-driven lighting concepts. SITECO Connect Wireless offers the right combination of options for every requirement.

#### For you this means:

- · More flexibility: Retrofit control systems and sensors at any time and change control systems flexibly
- · More independence: System compatibility of control systems regardless of the manufacturer
- More control diversity: Extension of the luminaire's own iQ functions with additional external devices and functionalities





#### **Overview of components for Smart-Interface:**

#### **Smart Plugs**

Control and radio networking of luminaires with Zhaga/D4i-compatible luminaire controllers. With remote access or as a purely local radio network. Lighting control depending on time of day, day of the week and daylight. Local storage of the switching and dimming calendar for reliable operation.

1 Smart Plug Standard	5EA3AM000001
Remote access for 5 years, for each Smart Plug Standard or Motion	5EA1ESP01
3 Smart Plug Cellular: Remote access for 5 years including radio clock and position detection	5EA3CM000001
Extension of mobile communications term, 5 years	5EA1ES01

#### **Motion sensors**

Lighting control depending on movement, daylight, day of the week and time of day. Autonomous or networked operation (swarm function). Multiple setting options for dimming level, follow-up time, up/down speed.

#### Radio motion sensor Low & High

Oval detection range, freely alignable, e.g. for paths and driveways. Radio controller (Smart Plug Standard or Cellular) integrated.

Smart Plug Motion Low: Mounting height below 6 m, detection range at 5 m height up to 8.80 m, at 6 m height up to 10 m	5EA40EL01
Smart Plug Motion High: Mounting height above 6 m, detection range at 6 m height up to 10 m, at 10 m height up to 17 m	5EA40EH01
Smart Plug Cellular Motion Low: Mounting height below 6 m, detection range at 5 m height up to 8.80 m and at 6 m height up to 10 m	5EA40ELC01
Smart Plug Cellular Motion High: Mounting height above 6 m, detection range at 6 m height up to 10 m and at 10 m height up to 17 m	5EA40EHC01
Motion Stick alignment lever	5EAU0H000001

#### Motion sensor Radar

Very wide detection range to the right and left of the luminaire, e.g. for roads. With and without radio controller (Smart Plug Standard).

Smart Plug Motion Radar: Detection range for trucks from 70 m, people from 25 m	5EA40RC01
Motion Radar: Detection range for trucks from 70 m, people from 25 m (can only be used together with Smart Plug Standard or Cellular)	5EA40RS01
Accessories: Motion Radar RF stick for customizing advanced settings	5EA40RF01

#### **Motion sensor Easy**

Preset PIR motion sensor, ON / OFF at 30 lux, idle state 20 %, on movement 100 % with 2 minute hold time, can be networked as an option, large detection range to the right and left of the luminaire, can be limited with enclosed cap, e.g. for paths.

6	Motion Easy: Mounting height from 5 to 8 m,	5EA40TE01
	detection range at 5 m height up to 30 × 6 m	

#### Motion sensor Low & High

PIR motion sensor with circular detection range, can be limited with enclosed cap, e.g. for surfaces.

6 Motion Low: Mounting height below 4.60 m;	5EA40LL01
detection range at 2.40 m height up to 6 m	
6 Motion High: Mounting height above 4.60 m;	5EA40LH01
detection range at 4.60 m height up to 12 m,	
at a height of 8 m height up to 24 m and at	
12 m height up to 30 m	

#### 2PIR motion sensor

PIR motion sensor with long detection range to the right and left of the luminaire, e.g. for residential streets.

Motion 2PIR: Detection range at 4 m height up to 17 m and at 8 m height up to 35 m (can only be used together with Smart Plug Standard or Cellular)

#### **Mast boxes**

Mast box for the control and networking of DALI luminaires without a Smart-Interface. With remote access (for use with Smart Plug Cellular as an accessory) or as a purely local radio network. Lighting control depending on time of day, day of the week and motion (Motion version). Local storage of the switching and dimming calendar for reliable operation.

Mast Box Standard	5EA3BS01
Mast Box GPS	5EA3BG01
Mast Box Motion Low: Mounting height below 6 m, detection range at 5 m height up to 8 m, at 6 m height up to 10 m	5EA3BEL01
Mast Box Motion High: Mounting height above 6 m, detection range at 6 m height up to 10 m and at 10 m height up to 17 m	5EA3BEH01
Mast Box Motion Radar: Detection range for trucks from 70 m, people from 25 m	5EA40RB01

#### Radio pushbutton

Radio pushbutton for individual lighting scenes, e.g. manual switching for rescue operations.

9 Button	5EA30A000D01
----------	--------------

#### Mounting away from the luminaire

Zhaga interface for placing additional motion sensors at inputs and outputs, for setting repeater or light sensor locations.

Smart Plug Box	5EA3BH01
----------------	----------

#### Setting and operation

#### Radio USB stick with software

For setting and checking lighting control devices on site.

0	Configurator software with USB stick	5EAU0A000001
0	GPS USB stick	5EAU0G000001

#### Web application for Smart Plugs Cellular

Remote set-up, management and monitoring from up to 120 adjacent Smart Plugs with Smart Plug Cellular. Simply by adding on 5EA1ESP01 for every Smart Plug Standard or Smart Plug Motion for 5 years of service life in each case.

Smart Plug remote access 5E	EA1ESP01
-----------------------------	----------

# Do you need help with commissioning and configuration?

We support you in planning, setting up and operating your SITECO Connect system. Further information can be found here.





# SITECO Connect Sports

# Would you like to simply control your sports lighting system with a swipe of your finger?

The SITECO Connect App turns lighting control into child's play and helps you save energy in the process. In short: the perfect solution to adapt your lighting to your needs with maximum flexibility and just one click. Are you ready to take control of your sports lighting of tomorrow?

#### ... with SITECO Connect Sports:

- · Simple lighting control via tablet or smartphone (Android or iOS)
- · Without WiFi and rewiring
- Flexible use and configuration based on your individual need
- Maximum energy savings thanks to adjustable lighting scenarios
- Total compatibility with all FL 11 DALI models (up to 50 × FL 11 at 240 V per control unit)
- One-time investment no license fee

#### SITECO Connect Sports at a glance

App-based	Lighting control system
Technical requirements	FL11 maxi DALI & SITECO Connect Sports, up to 4 floodlights individually controllable (up to 50 × FL 11 per 230 V control unit   up to 10 × FL 11 per 400 V control unit)
Signal range	Over 100 m outdoors for maximum flexibility – regardless of the number of masts
Infrastructure or license fees	Not necessary

#### **Order numbers for SITECO Connect**

#### **Sports**

SITECO Connect Mast Controller 230 V	5XA769SCS5
SITECO Connect Mast Controller 400 V	5XA769SCS4
SITECO Connect Pushbutton Interface	5XA769SCST
SITECO Connect Smart Plug Casambi	5EA3TDC01



powered by CASAMBI

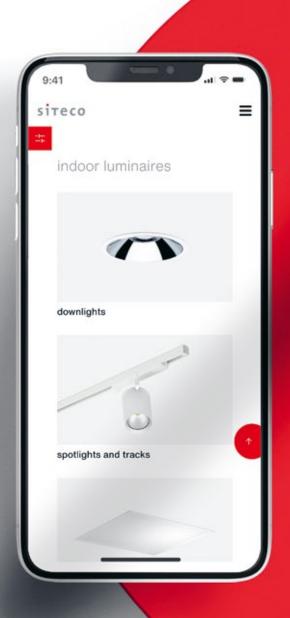








# Our complete portfolio: siteco.com



## Sales UK.

#### Siteco UK Ltd

Hexagon Tower Crumpsall Vale Blackley Manchester M9 8GQ Phone +44 (0) 3300 555 209 contact-uk@siteco.com

## Contact.

#### Siteco GmbH

Georg-Simon-Ohm-Str. 50 83301 Traunreut, Germany Phone +49 8669 330 info@siteco.com

siteco.com

#### Newsletter

Would you like to stay informed about the topics of lighting and lighting renovation?

